

# AUCKLAND MARINE SERVICES DIRECTORY

A GUIDE TO  
THE HAURAKI  
GULF AND  
BEYOND



**2019**  
6TH EDITION

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# AUCKLAND MARINE SERVICES DIRECTORY 2019

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## Message from the Publisher ...

Welcome to the 5th edition of the Auckland Marine Services Directory and website. The goal was to publish a directory covering all marine businesses and services in the Auckland region, for local and visiting vessels.

If your company or service has not been listed, please let us know so you can be included next year.

Safe sailing and boating

*Graham Lambert - Managing Director*

---

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*"We try our hardest to make sure the information and content in this directory is up to date and accurate but we exclude ourselves from any liability for losses incurred by you in reliance on the information in the directory."*

*Cover photo:* The Secret Is In The Ride. The Haines Hunter SF600 making easy work of the Motuihe Channel.

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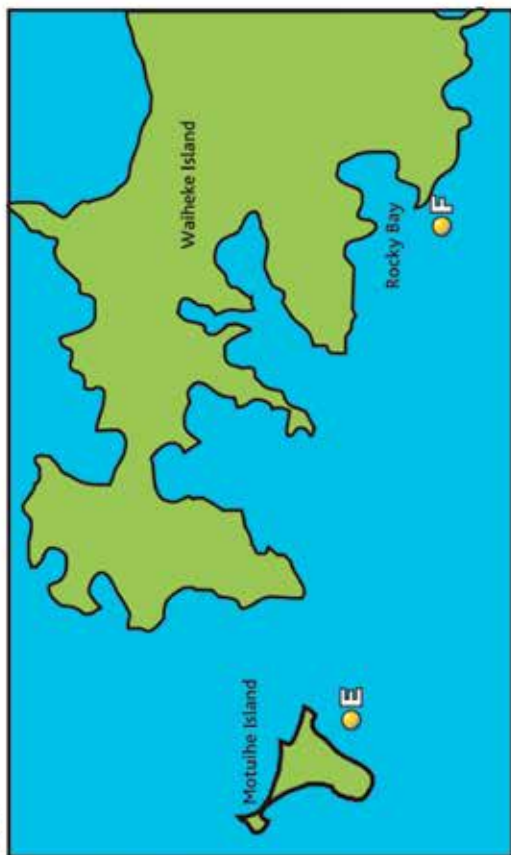
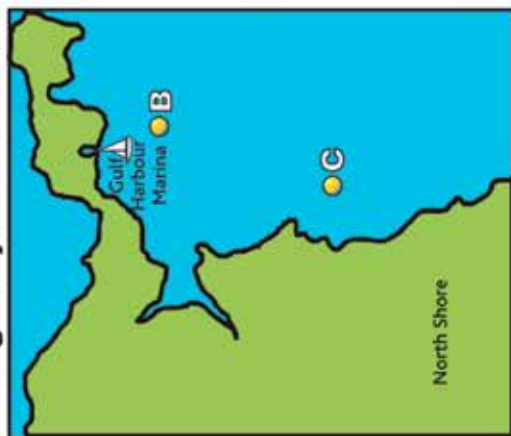
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**EMAIL: raybryant@xtra.co.nz**



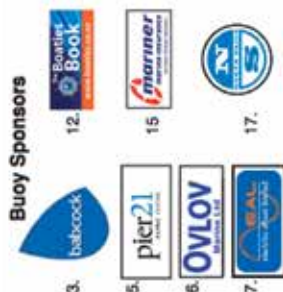
## Racing Buoys information sheet.



### BUOY LOCATIONS AND GPS POSITIONS

Location	GPS Position	Location	GPS Position
1. Westhaven	36°49.90S 174°44.91E	14. Northern Leading	36°49.33S 174°50.60E
2. Bayswater	36°49.78S 174°45.77E	15. Bean Rock	36°50.19S 174°49.63E
3. Stanley Point	36°49.85S 174°46.59E	16. Bastion	36°50.41S 174°49.38E
4. Devonport	36°50.00S 174°47.40E	17. Orakei	36°50.54S 174°48.72E
5. Torpedo Bay	36°50.11S 174°48.38E	18. Resolution	36°50.66S 174°47.86E
6. North Head	36°49.63S 174°49.08E	19. Chelsea	36°49.68S 174°43.80E
7. Rough Rock	36°49.07S 174°49.50E	A. Maola	36°49.81S 174°42.66E
8. Narrow Neck	36°47.83S 174°48.51E	B. Gulf Harbour	36°39.13S 174°48.03E
9. Cable	36°47.61S 174°47.28E	C. Torbay	36°42.50S 174°47.30E
10. McKenzie	36°46.84S 174°49.05E	D. Ilkomaia	36°48.70S 174°52.62E
11. Salt Works	36°47.80S 174°49.38E	E. Sergeant Channel	36°49.30S 174°57.40E
12. Flax Point	36°48.41S 174°49.95E	F. Rocky Bay	36°49.98S 175°03.30E
13. Rangitoto	36°48.80S 174°50.84E	G. Motukorea	36°49.80S 174°52.00E

### Buoy Sponsors



Not to be used for navigation.  
Position indications only.





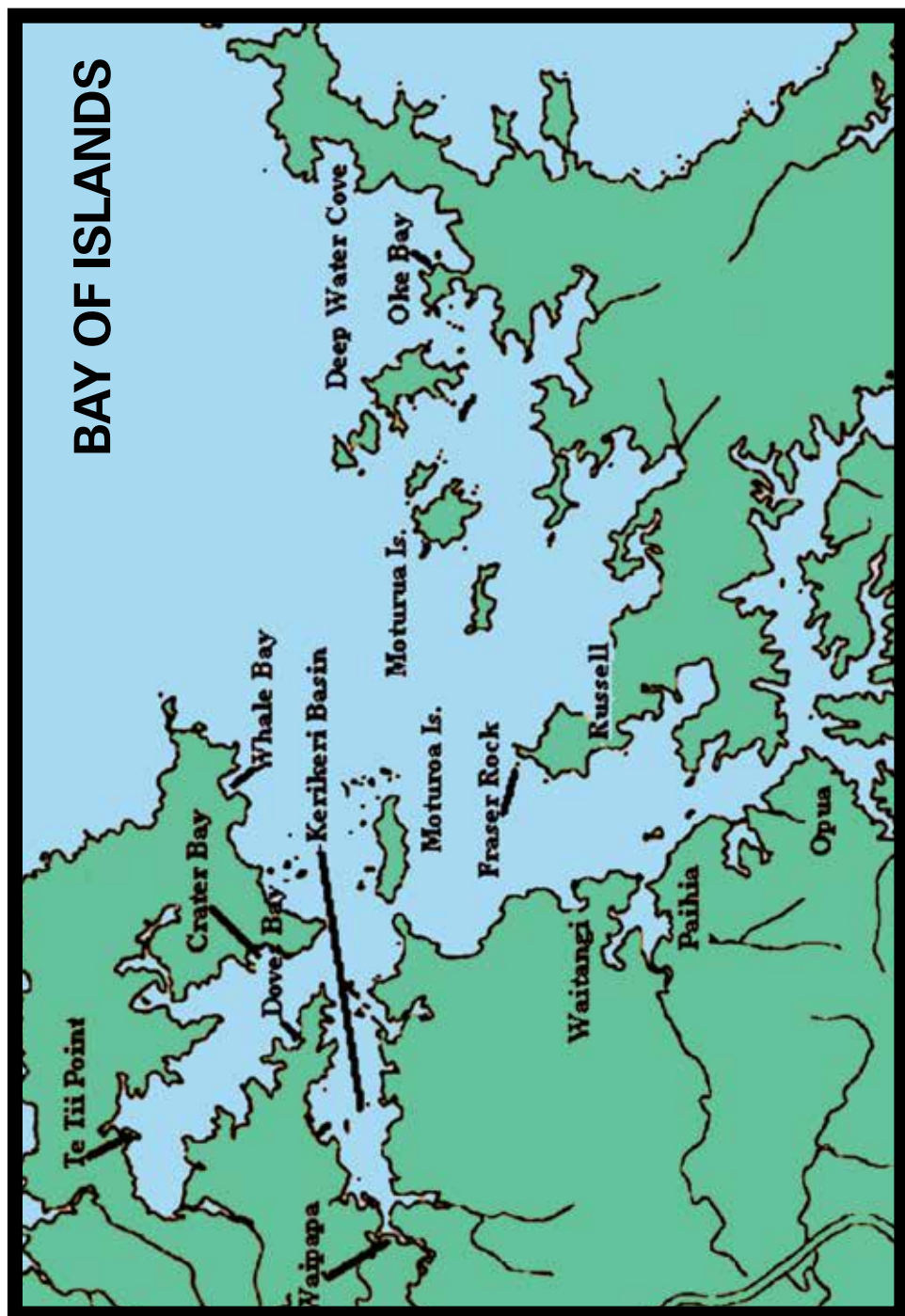
# Marinas and Services along the coast

MARSDEN COVE MARINA		Petrol	Diesel	Water	LPG
	Credit Card/Eftpos	✓	✓	✓	
	Ph 09 432 7740				
TUTUKAKA MARINA		Petrol	Diesel	Water	LPG
	24 hrs with Shell Card, C/Card with pin Ph 09 434 3441	✓	✓	✓	
WHANGAROA		Petrol	Diesel	Water	LPG
	Whangaroa Marina Ph 09 405 0505	✓	✓	✓	
	Clansman's Wharf – Ratcliff's Bay BP Fuel card only		✓		
	Totara North Wharf Mobil Fuel Card only		✓		
	Whangaroa Coastguard Water Buoy Situated in the eastern arm: 35°01.18S 173°46.07E			✓	
	Boyd Gallery General Store Cylinder refills available. Drop off bottle and pick up next day.				✓
WHANGAREI MARINA		Petrol	Diesel	Water	LPG
	Ph 09 438 2033			✓	
BAY OF ISLANDS					
PAHIA		Petrol	Diesel	Water	LPG
	Credit Card/Eftpos/Mobil Cards/Caltex Starcard			✓	
RUSSELL		Petrol	Diesel	Water	LPG
		✓	✓	✓	
OPUA MARINA		Petrol	Diesel	Water	LPG
	Diesel at Jetty, pay at the shop Ph 09 402 7124		✓	✓	
KERIKERI CRUISING CLUB & MARINA		Petrol	Diesel	Water	LPG
	Doves Bay Ph 09 407 9434		✓	✓	





# BAY OF ISLANDS





# Bay of Islands Distance Table

Distances in Nautical Miles to Nearest Whole Mile

	Cape Brett	Crater Bay	Deep Water Cove	Doves Bay	Fraser Rock	Kerikeri Basin	Moturoa Island	Moturua Island	Oke Bay	Opua	Paihia	Russell	Te Tii Point	Waitangi	Waipapa	Whale Bay
Cape Brett		15	5	15	13	20	13	10	6	17	15	15	18	15	20	12
Crater Bay	15		14	3	6	7	3	8	12	11	8	8	4	8	6	5
Deep Water Cove	5	14		12	11	18	11	7	3	15	13	12	16	13	19	10
Doves Bay	15	3	12		6	5	3	8	14	10	8	7	5	7	4	5
Fraser Rock	13	6	11	6		10	2	4	10	5	3	2	8	3	10	5
Kerikeri Basin	20	7	18	5	10		8	13	18	15	12	12	11	12	2	10
Moturoa Island	13	3	11	3	2	8		4	10	7	5	4	5	4	8	3
Moturua Island	10	8	7	8	4	13	4		6	9	7	6	10	6	14	5
Oke Bay	6	12	3	14	10	18	10	6		15	13	12	14	12	19	10
Opua	17	11	15	10	5	15	7	9	15		4	6	13	4	15	9
Paihia	15	8	13	8	3	12	5	7	13	4		2	10	2	13	8
Russell	15	8	12	7	2	12	4	6	12	6	2		9	2	12	7
Te Tii Point	18	4	16	5	8	11	5	10	14	13	10	9		9	8	7
Waitangi	15	8	13	7	3	12	4	6	12	4	2	2	9		12	7
Waipapa	20	6	19	4	10	2	8	14	19	15	13	12	8	12		10
Whale Bay	12	5	10	5	5	10	3	5	10	9	8	7	7	7	10	



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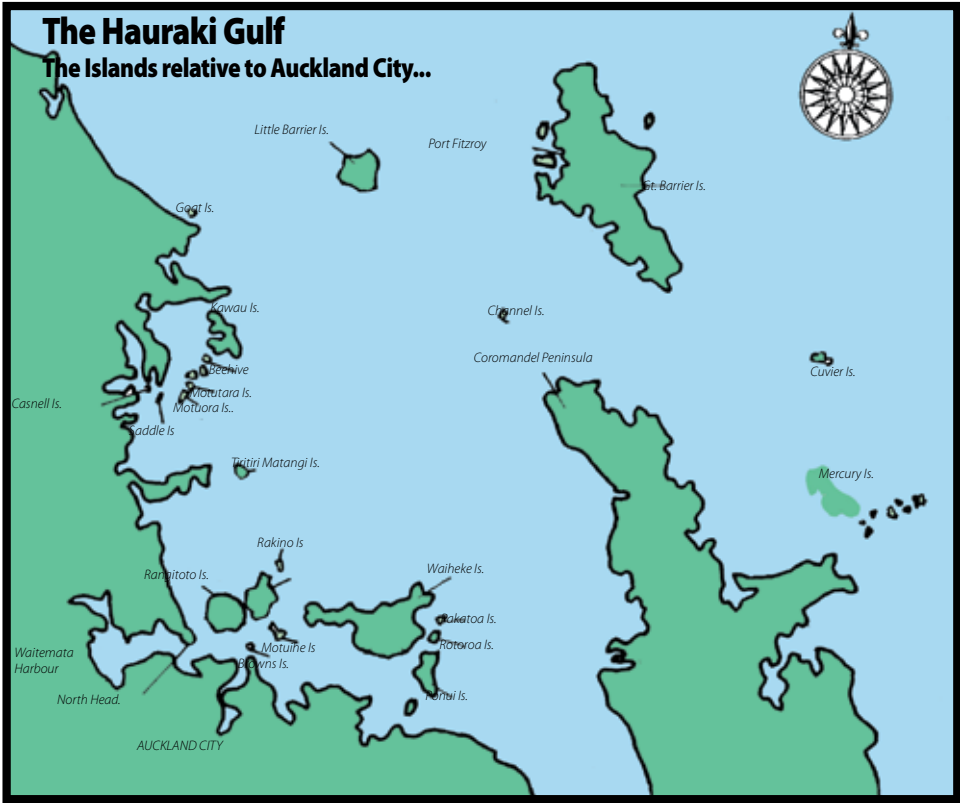
**ENGRAVING  
SYSTEMS**



# Index to Map Locations

The following maps are intended for general locations purposes only and should not be used for navigation.

A		Awana Bay (Gt Barrier) ..... F	
Accord Point (Kawau) .....	E	Awash Rock (Rakino).....	C
Achilles Point .....	C	B	
Administration Bay (Motutapu).....	C	Bastion Point.....	A
Ahuriri Point (Gt Barrier) .....	F	Bayswater Wharf .....	A
Aiguilles Islands.....	F	Bean Rocks .....	A
Anita Bay (Waiheke).....	D	Beaumont Point (Kawau).....	E
Archway Island .....	E	Beehive Island.....	E
Arkles Bay (Whangaparaoa).....	B	Big Manly (Whangaparaoa).....	B
Army Bay (Whangaparaoa).....	D	Billy Goat Point - (Motuihe).....	C
Arran Bay (Waiheke).....	D	Billy Goat Point - (Motutapu).....	C
Awaawaroa Bay (Waiheke).....	D	Birkenhead Wharf .....	A
Awakeripapa Bay (Waiheke).....	D		





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Blind Bay (Gt Barrier) .....	F
Bon Accord Harbour (Kawau) .....	E
Bostaquet Bay (Kawau) .....	E
Boulder Bay (Rangitoto) .....	C
Bowling Alley Bay (Gt Barrier) .....	F
Broken Islands .....	F
Brownrigg Point (Kawau) .....	E
Browns Bay .....	B
Bryants Bay (Ponui) .....	D
Burgess Bay (Kawau) .....	E

C	
Cable Bay (Waiheke) .....	D
Cactus Bay (Waiheke) .....	D
Calypso Bay (Motuihe) .....	C
Cambells Bay .....	B
Cape Barrier (Gt Barrier) .....	F
Carey Bay (Waiheke) .....	D
Castor Bay .....	B
Cemetery Point (Motuihe) .....	E
Chamberlins Bay (Ponui) .....	D
Charcoal Bay (Beach Haven) .....	A
Chelsea - Wharf & Bay .....	A
Cheltenham Beach .....	A, B
Church Bay (Waiheke) .....	D
Circular Bay (Waiheke) .....	D
Coastguard Bay (Rangitoto) .....	C
Connells Bay (Waiheke) .....	D
Cook Point .....	A
Cowes Bay (Waiheke) .....	D

D	
Days Bay (Waiheke) .....	D
Deadmans Bay (Waiheke) .....	D
Dispute Cove (Kawau) .....	E
Duders Point (Bayswater) .....	A

E	
Edwards Point (Kawau) .....	E
Eel Rock (Waiheke) .....	D
Elizabeth Point (Kawau) .....	E
Emu Bay - (Mototapu) .....	C
Emu Bay - (Kawau) .....	E
Emu Point (Mototapu) .....	C

F	
Fairchild Reef .....	E
Farmer Bay (Kawau) .....	E
Finger Point (Waiheke) .....	D
Fitzpatrick Bay (Birkenhead) .....	A
Flax Point (Rangitoto) .....	C
Fowlhouse Bay (Rakino) .....	C
Frenchmans Cap .....	D
Frenchmans Gap .....	D

G	
Garden Bay (Waiheke) .....	D
Garden Cove (Waiheke) .....	D
Gardiner Gap (Rangitoto) .....	C
Goat Island (Kawau) .....	E
Golden Bay (Motuihe) .....	C
Gower Point (Kohimarama) .....	A, C
Graveyard Point (Waiheke) .....	D

H	
Hakiamango Point (Waiheke) .....	D
Hatfields Beach .....	B





Hellyers Creek.....	A
Herald Island.....	A
Hitapa Bay (Waiheke) .....	D
Hobbs Bay (Whangaparaoa).....	B
Hobson - Bay & Point .....	A
Hobsonville Air Base.....	A
Hokimai Bay (Kawau).....	E
Home Bay (Motutapu) .....	C
Hooks Bay (Waiheke).....	D
Huaroa Point (Whangaparaoa) .....	B
Huruhi Bay (Waiheke).....	D
Huse Bay (Waiheke).....	D

I	
Island Bay (Birkdale) .....	A
Islington Bay (Rangitoto) .....	B, C

J	
Junction Island.....	F

K	
Kaiarara Bay (Gt Barrier) .....	F
Kaikoura Island .....	F
Kaikuku Bay (Waiheke).....	D
Kaitoke Beach (Gt Barrier) .....	F
Karaka Bay .....	C
Karipaka Bay (Waiheke).....	D
Katherine Bay (Gt Barrier) .....	F
Kaukarau Bay (Waiheke) .....	D
Kauaroa Bay (Waiheke).....	D
Kauri Point (Birkenhead) .....	A

Kauri Point (Waiheke) .....	D
Kendall Bay .....	A
Kawati Point (Kawau) .....	E
Kawau Point (Kawau).....	E
Kennedy Point (Waiheke) .....	D
Kiwiriki Bay (Gt Barrier).....	F
Koi Island .....	D
Kohimarama Beach .....	A
Koraka Bay (Kawau).....	E
Korakorahi Point (Waiheke) .....	D
Korotiti Bay (Gt Barrier) .....	F
Kotanui Island .....	B
Kowhai Grove (Rangitoto).....	C

L	
Ladies Bay (St Heliers) .....	C
Ladys Bay (Kawau) .....	E
Limeburners Bay (Hobsonville).....	A
Little Bay (Waiheke).....	D
Little Manly (Whangaparaoa).....	B
Little Markham Island .....	E
Little Shoal Bay (Northcote).....	A
Long Bay.....	B
Lucas Creek .....	A

M	
Marinas	
Bayswater.....	A
Gulf Harbour Marina .....	B
Half Moon Bay.....	C
Okahu Bay Marina.....	A





OBC Marina .....	A
Westpark.....	A
Mackenzie Bay (Rangitoto) .....	C
Mairangi Bay .....	B
Mahuehue Point (Waiheke).....	D
Mahuki Island .....	F
Mangati Bay (Gt Barrier) .....	F
Man-o-War Bay (Waiheke).....	D
Mansion House Bay (Kawau).....	E
Maori Garden Bay (Rakino) .....	C
Martello Rock .....	E
Matiatia Bay (Waiheke) .....	D
Matapihi Point (Waiheke) .....	D
Maunganui Point - (Waiheke) .....	D
Maunganui Point - (Gt Barrier).....	F
Mayne Islands .....	E
Milford Beach .....	A, B
Minders Head (Gt Barrier) .....	F
Mission Bay.....	A
Momona Point (Kawau).....	E
Mona Bay (Gt Barrier).....	F
Moores Bay (Kawau).....	E
Motuhaka Island (Waiheke).....	D
Motutaiko Island.....	F
Mullet Bay (Motutapu) .....	C
Murrays Bay .....	B
Musick Point.....	C

## N

Nagle Cove (Gt Barrier).....	F
Nani Island (Waiheke).....	D
Narrow Neck Beach .....	A, B
Needle Rock (Waiheke).....	D
Needle Bay (Waiheke) .....	D
Needles Point (Aiguilles Island).....	F
Nelson Island .....	F
Nelson Rock .....	E
Ngataranga Bay (Bayswater) .....	A
North Channel .....	E
North Cove (Kawau).....	E
North Harbour (Ponui) .....	D

## O

Ohinerau Bay (Motuihe) .....	C
Okahu Bay.....	A
Okoromai Bay (Whangaparaoa) .....	B
Omaru Bay (Waiheke).....	D
Omiha Point (Waiheke).....	D
O'Neill's Point (Bayswater) .....	A
Oneroa Bay (Waiheke).....	D
Onetangi Bay (Waiheke).....	D
Onetaunga Bay (Birkenhead).....	A
Opakau Island .....	F
Opopoto Bay (Waiheke) .....	D
Opoto Bay (Waiheke).....	D
Orakei Wharf .....	A
Oranga Bay (Ponui).....	D
Orapiu Bay (Waiheke) .....	D
Orewa Beach.....	B
Oruawharo Bay (Gt Barrier) .....	F
Oruapure Bay (Gt Barrier).....	F
Otahuhu Point (Motutapu) .....	C
Otakawhe Bay (Waiheke).....	D
Owhanake Bay (Waiheke) .....	D
Owhiti Bay (Waiheke) .....	D

## P

Pa Point (Motuihe) .....	C
Park Point (Waiheke).....	D
Pasadena Bay (Waiheke).....	D
Patio Bay (Waiheke).....	D
Peaked Rocks.....	E
Pembles Island.....	E
Percy Point (Kawau).....	E
Pepo Bay (Waiheke).....	D
Picnic Bay (Waiheke) .....	D
Piemelon Bay (Waiheke) .....	D
Pig Island .....	C
Pipimea Head.....	A
Pipitewhau Bay (Waiheke) .....	D
Pitokuku Island .....	F
Pohutukawa Bay (Waiheke).....	D
Point Fowler (Kawau).....	E



Ponui Head (Ponui).....	D	Showboat Wreck (Rangitoto).....	C
Port Abercrombie (Gt Barrier).....	F	Silver Bay (Waiheke).....	D
Port Fitzroy (Gt Barrier).....	F	Sister Point (Kawau).....	E
Puriri Bay (Gt Barrier).....	F	Slip Island.....	E
Putiki Bay (Waiheke).....	D	Smeltinghouse Bay (Kawau).....	E
R		Snapper Bay (Motuihe).....	C
Rabbit Bay (Ponui).....	D	Soldiers Bay (Birkdale).....	A
Rabbit Island (Kawau).....	E	South Cove (Kawau).....	E
Rahapara Point.....	B	South East Beach (Motuihe).....	C
Rangihoua Creek (Waiheke).....	D	South Island (Rakino).....	C
Rangiahua Island.....	F	Stanley - Point & Bay.....	A
Ranitawhiri Point (Waiheke).....	D	Stanmore Bay.....	B
Rangiwhakaea Bay (Gt Barrier).....	F	Station Bay (Motutapu).....	C
Rakitu Island.....	F	Stockyard Bay (Kawau).....	E
Rakauananga Point.....	B	Stony Beach (Gt Barrier).....	F
Rapid Bay (Gt Barrier).....	F	Sunset Bay (Beach Haven).....	A
Red Beach.....	B	Sunny Bay.....	E
Red Bluff (Campbells Bay).....	B	Swansea Bay (Kawau).....	D
Red Bluff (Gt Barrier).....	F		
Rocky Bay (Waiheke).....	D	T	
Rosalie Bay (Gt Barrier).....	F	Takangaroa Island.....	E
Rosario Channel.....	E	Takapuna - Head & Beach.....	A, B
Ross Bay (Gt Barrier).....	F	Takutairaroa Bay (Motuihe).....	C
Rothsay Bay.....	B	Taniwhanui Point (Waiheke).....	D
Ruruwhanga Bay (Waiheke).....	D	Taylors Bay (Gt Barrier).....	F
Ruthes Passage.....	D	Te Matuka Bay (Waiheke).....	D
S		Te Miro Bay (Waiheke).....	D
St Heliers Bay.....	A, C	Te Rare Point (Waiheke).....	D
St Leonards Beach.....	B	Te Wharau Bay (Waiheke).....	D
Sandy Bay (Rangitoto).....	C	Te Whau - Bay & Point (Waiheke).....	D
Sandy Bay (Rakino).....	C	Te Whetumatarau Bay (Waiheke).....	D
Sandy Bay (Waiheke).....	D	Thorne Bay.....	A, B
Sandy Bay (Gt Barrier).....	F	Thompsons Point (Waiheke).....	D
Sandy Bay (Kawau).....	E	Three Sisters (Rakino).....	C
Schoolhouse Bay (Kawau).....	E	The Cove (Rakitu Island).....	F
Schooner Bay (Gt Barrier).....	F	Thumb Point (Waiheke).....	D
Shag - Point & Harbour (Gt Barrier).....	F	Tikitikiatonga Point (Waiheke).....	D
Shakespeare Bay (Whangaparaoa).....	B	Tide Bay (Kawau).....	E
Shark Bay (Ponui).....	D	Tindalls Bay (Whangaparaoa).....	B
Shark Bay (Kawau).....	E	Tipan Point.....	B
Sharp Point (Kawau).....	E	Tiritiri Matangi Island.....	B
Shearer Rock.....	B	Tor, The.....	B
Shoal Bay (Bayswater).....	A	Torbay.....	B
		Toroa Point.....	B



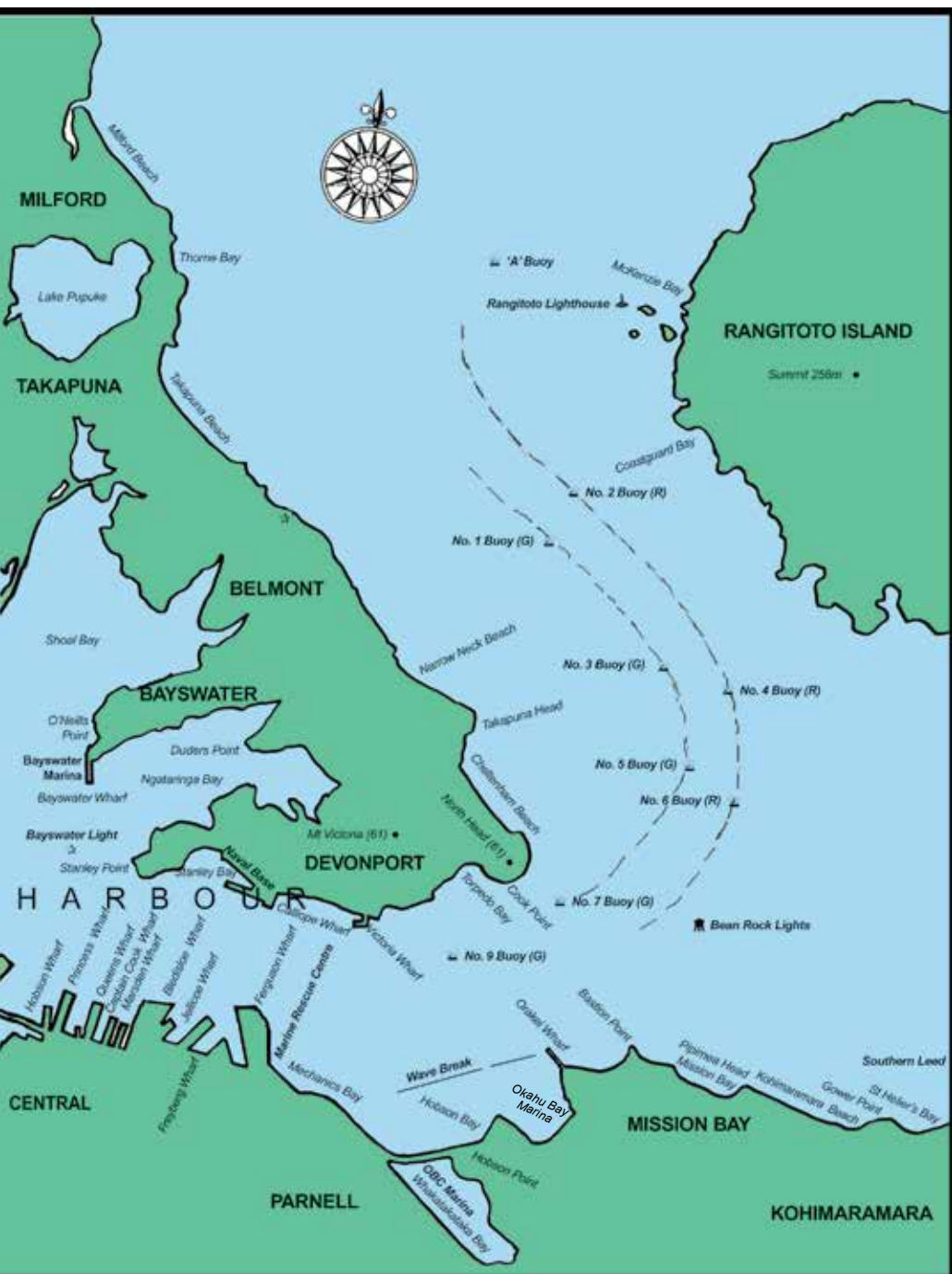
Torpedo Bay .....	A	Watchman Island.....	A
Tryphena Harbour (Gt Barrier) .....	F	Watering Bay (Kawau) .....	E
Twins (Kawerau) .....	E	Wellington Head .....	F
Two House Bay (Kawau) .....	E	Wellington Rock.....	B
		Wenderholm.....	B
V		West Bay (Rakino) .....	C
Vivian Bay (Kawau) .....	E	West Tamaki Head.....	C
		Westhaven Marina .....	A
W		Whakatakataka Bay .....	A
Waiake Beach .....	B	Whakatautuna Point (Gt Barrier) .....	F
Waiau Bay (Whangaparaoa) .....	B	Whangaparapara Harbour (Gt Barrier) .....	F
Waihaorangatahi Bay (Motuihe) .....	C	Whangapoua Beach (gt barrier) .....	F
Waiheke Bay (Waiheke) .....	D	Whangarara Island.....	F
Waiheke Point (Waiheke).....	D	Wharetana Bay (Waiheke) .....	D
Waikalabubu Bay (Motutapu).....	C	Wharf Bay (Motuihe) .....	C
Waikaro Point (Gt Barrier) .....	F	Whites Bay (Waiheke) .....	D
Waikopou Bay (Waiheke) .....	D	Whites Beach (Rangitoto) .....	C
Waihoraiki Bay (Waiheke).....	D	Winstones Cove.....	B
Waimanga Bay (Waiheke).....	D	Wood Island .....	F
Waipapa Bay (Gt Barrier) .....	F	Woodlands Bay (Waiheke) .....	D
Wairahi Bay (Gt Barrier) .....	F	Woodside Bay (Waiheke) .....	D
Wairere Bay (Waiheke) .....	D	Woody Bay (Rakino) .....	C
Wairua Bay (Waiheke).....	D		
Waiti Bay (Waiheke).....	D		

















# Rangitoto, Motutapu, Motuihe, Rakino & Browns Island



## RAKINO ISLAND



## MOTUTAPU ISLAND



## MOTUIHE ISLAND



## BROWNS ISLAND



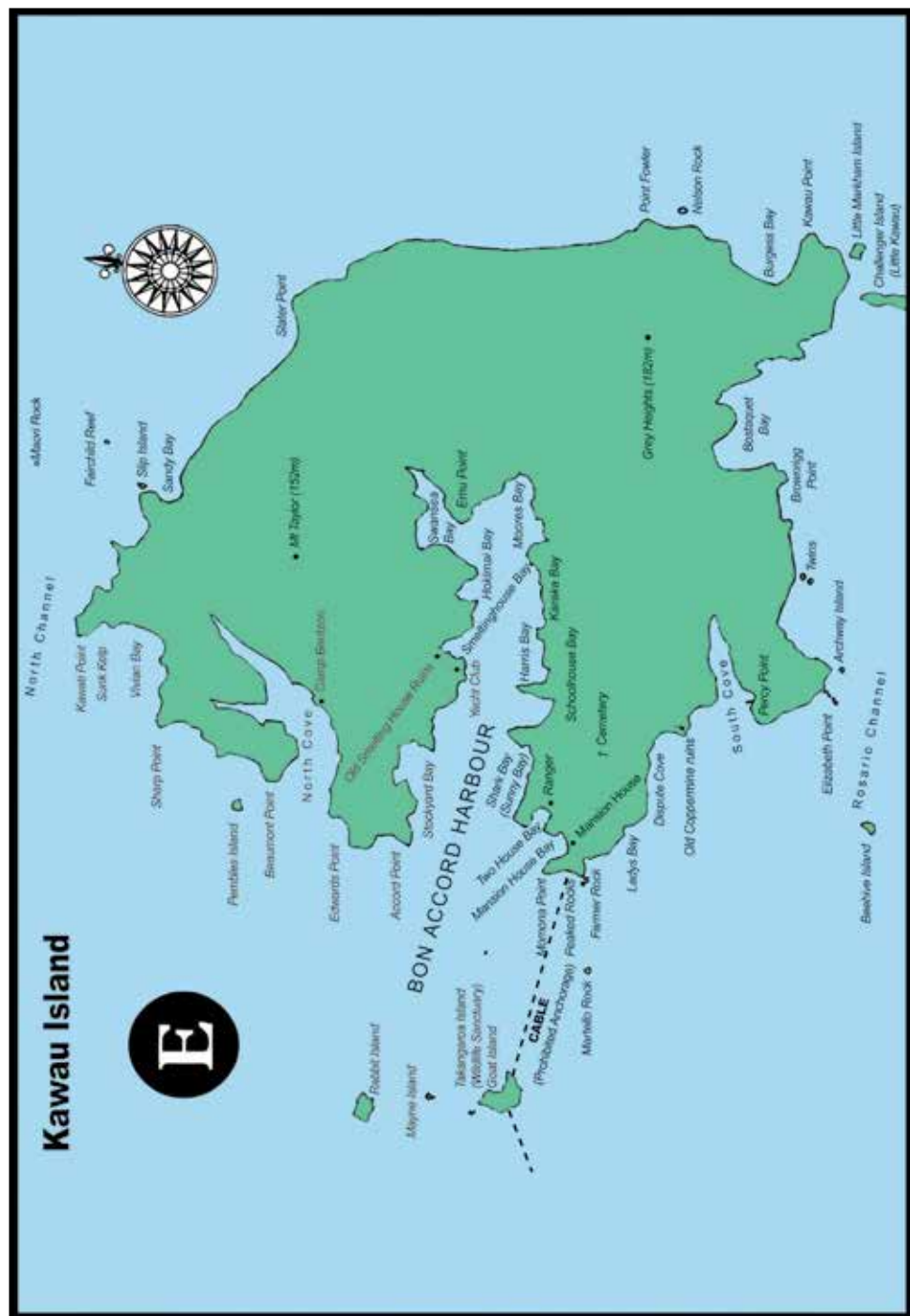
## RANGITOTO ISLAND













**F**



The map shows the Whangaparapara Peninsula, a large headland on the northern coast of New Zealand's North Island. The peninsula is divided into several sections, each with its own name: Okuwhi, Port Fitzroy, Whangaparapara, Claris, Okupu, and Tryphena. The map is surrounded by numerous bays and islands, including the Agulles Islands, Waiwero Bay, Whungipou Bay, and the Whangaparapara Harbour. A compass rose is located in the top right corner, and a scale bar is in the bottom right corner.



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Know what you are doing... that's the catch phrase that Coastguard Boating Education use. There is a really good reason for that and it has to do with the fact us Kiwis have a habit of "she'll be right" which is fine when you aren't in an environment that has a nasty habit of changing in the blink of an eye to a potentially dangerous situation, but when you are on the water, be it a lake, river or the ocean, that's what happens.

Know what you are doing with weather and tides. If you go out with the tide you can have a lovely ride, but if you come home and it is wind against tide, you can bet it is going to be a whole different, uncomfortable ride and your boating skill will need to be up to par or you can get into a right pickle!

Know what you are doing with your radio... why can you hear people but you can't see them? Why does it appear people can't hear you? What's the story with the phonetic alphabet? What channel should I be listening to?

Know what you are doing with your navigation and rules of the road... rules of WHAT??? Who gives way to whom? What do those lights mean? What is the candy cane post in the water indicating?

Know what you are doing with your life jacket. What type of life jacket do you need? Just going kayaking, or coastal racing, or wakeboarding? Different life jackets are designed for different situations. Do you know what your PFD or life jacket is designed for?

These are some of the questions answered in the Day Skipper course and you can bet even the most seasoned boatie may be surprised at what they don't know that they should know.

The Certificate in Domestic Maritime Operations (CIDMO) – a precursor to the MNZ SRL (Skipper Restricted Limits) license is also delivered by Coastguard Boating Education. This is a license for those wishing to operate Water Taxis, or Jet Boats or small Fishing charter boats and the like for vessels up to 12m carrying 19 passengers within Restricted Limits.

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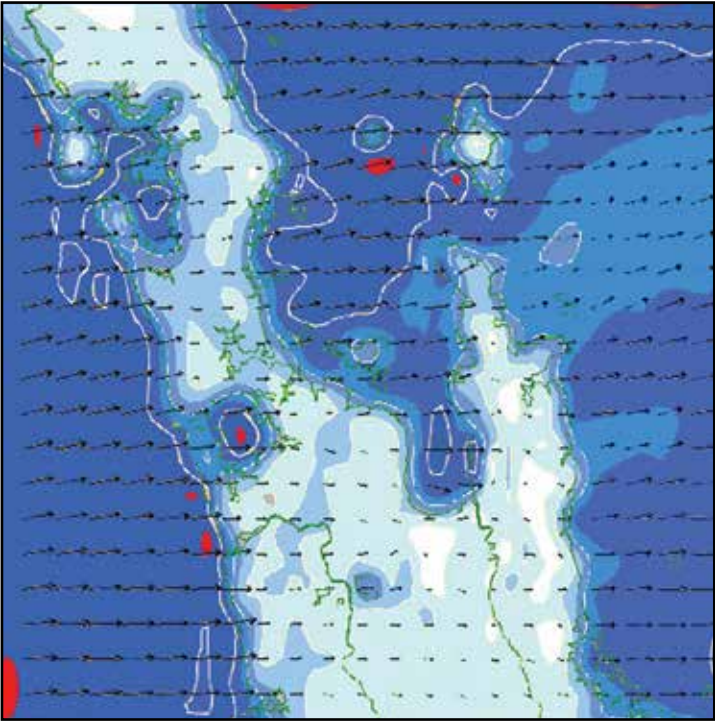


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Terrain effects can swing the breeze. The forecast is just an average. To help you do your own fine-tuning, check out the wind maps like this on the web at: [www.netmet.co.nz](http://www.netmet.co.nz) Auckland marine (charges apply)

HEIGHT; the average of the top third. The occasional wave (1 in 100) is 50% higher, and the Maximum wave (1 in 1000 or about once a day) is twice as high.

smooth	Up to 0.5m (metre)
slight	Up to 1.25m
Moderate	Up to 2.5m
rough	Up to 4m
Very rough	Up to 6m

When wind opposes the tide, waves get steeper especially in windy places such as bars and passages.

• **Swell** refers to waves rolling in from the ocean. The significant

height is given for swells of 1m or more and the direction they come FROM.

**Visibility:** is included normally when reductions are experienced.

GOOD VIS	More than 6 nm
FAIR	3 to 6nm
POOR	1 to 3nm
FOG	1nm or less

• **Observations** OBSERVED WINDS from key places are given in degrees true and knots along with BAROMETER readings. Get up to the minute wind data via VHF, Coastguard text-messaging or on MetPhone 0900 999 09 selection 7.



# BEAUFORT SCALE

## How to estimate wind speeds without instruments

Beaufort Number	Wind Speed Kts      Km/h		Description	At sea
0	0	0	Calm	Sea like a mirror
1	1 - 3	1 - 5	Light Air	Ripples with the appearance of scales are formed, but without foam crests.
2	4 - 6	6 - 11	Light Breeze	Small wavelets, still short but more pronounced crests have a glassy appearance and do not break.
3	7 - 10	12 - 19	Gentle Breeze	Large wavelets; crests begin to break; foam of glassy appearance; perhaps scattered white horses
4	11 - 16	20 - 28	Moderate Breeze	Small waves, becoming longer; fairly frequent white horses.
5	17 - 21	29 - 38	Freesh Breeze	Moderate waves, taking a more pronounced long form; many white horses are formed (chance of some spray).
6	22 - 27	39 - 49	Strong Breeze	Large waves begin to form; white foam crests are more extensive everywhere (probably some spray).
7	28 - 23	50 - 61	Near Gale	Sea heaps up and white foam breaking waves begins to be blown in streaks along the direction of the wind.
8	34 - 40	62 - 74	Gale	Moderately high waves of greater length; edges of crests begin to break into spindrift; foam is blown in well marked streaks along the direction of the wind.
9	41 - 47	75 - 88	Strong Gale	High waves; dense streaks of foam along the direction of the wind; crests of waves begin to topple tumble and roll over; spray may effect visibility.
10	48 - 55	89 - 103	Storm	Very high waves with long overhanging crests, the resulting foam, in great patches, is blown in dense white streaks along the direction of the wind; the surface of the sea takes on a whiter appearance; the tumbling of the sea becomes heavy and shock-like; visibility affected.
11	56 - 63	104 - 177	Violent Storm	Exceptionally high waves (small and medium size ships may be, for a time, lost to view behind the waves); the sea is completely covered with long white patches of foam lying along the direction of the wind; everywhere the edges of the wave crests are blown into front; visibility affected.
12	over 63	over 117	Cyclone	The air is filled with foam and spray; sea completely white with driving spray; visibility very seriously impaired.



## CONVERSION TABLE FOR PRESSURE

INCHES	mm	hPa
28.94	735	980
29.09	739	985
29.24	743	990
29.38	746	995
29.53	750	1000
29.68	754	1005
29.83	758	1010
29.97	761	1015
30.12	765	1020
30.27	769	1025
30.42	773	1030
30.56	776	1035

## STATE OF THE SEA

Cam/Smooth	Less than 0.5 metres
Slight Seas	0.5 to 1.25 metres
Moderate Seas	1.25 to 2.5 metres
Rough Seas	2.5 to 4.0 metres
Very Rough Seas	4.0 to 6.0 metres

## SWELL LENGTH

Short Swell	0 to 100 metres
Average Swell	100 to 200 metres
Long Swell	More than 200 metres

## CONVERSION TABLE FOR TEMPERATURES

° C	-5	0	5	10	15	20	25	30	35	40	45	50	° C
° F	23	32	41	50	59	68	77	86	95	104	113	122	° F

Conversion formulae: ° C =  $\frac{5}{9}$  (° F - 32)



# Fishing Regulations

## Play your part to conserve the resource.

Fishing is one of New Zealand's most popular recreational activities. Every year a large number of finfish, rock lobster and shellfish are taken by recreational fishers. This can seriously affect local fisheries. This means it is important for all fishers to act responsibly and help conserve the resource.

### Know the limits

Commercial fishers must have a current fishing permit and are subject to strict quotas or limits on how much they can catch, along with many other controls. The restrictions on recreational fishers are relatively simple. The three main 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 those people physically involved in taking finfish, rock lobster, or shellfish are entitled to claim a catch within the daily limit. You should also be aware of the restrictions on the fishing gear and methods you can use.

### Alive and unharmed

Unlawfully taken fish (such as fish taken in excess of your daily limit, undersized fish, or fish taken with undersized mesh) must be immediately returned to the water. Fish taken alive should be handled with wet cotton or rubber gloves or at least wet hands and returned to the water very gently, allowing the fish to slide into the water from as close to the surface as possible.

It is important to return fish, especially shellfish and rock lobster, as near as possible to the place where they were found. Dead fish that are taken unlawfully must also be returned to the water. If you encounter large numbers of undersized fish then change locations or use a larger hook size. Landing nets can be used to secure fish lawfully taken by any method.

### A guide

These notes provide a guide to the regulations. For full details on amateur fishing restrictions, contact your nearest Ministry for Primary Industries office.

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## Finfish

### Bag limits and size restrictions

In the North Region there is a combined maximum daily bag limit of 20 of any combination of the following finfish (with no more than 5 Bluenose):

Finfish Species	Minimum fish length (cm)	Minimum set net mesh size (mm)	Minimum dragnet mesh size (mm)
Blue Cod	30	100	100
Blue Moki	40	114	115
Bluenose	–	160	100
Butterfish	35	108	108
Elephant fish	–	150	150
Flatfish (except Sand flounder)	25	114	100
John Dory	–	100	100
Kahawai	–	90	85
Parore	–	114	100
Porae	–	–	100
Red cod	25	100	100
Red gurnard	25	100	100
Red moki	40	115	115
Red snapper –	114	100	
Rig	–	125	150
Sand flounder	23	114	100
School shark	–	125	100
Tarakihi	25	100	100
Trevally	25	125	100

In addition you may also take the following:

Finfish Species	Minimum fish length (cm)	Maximum daily limit per person	Minimum set net mesh size (mm)	Minimum dragnet mesh size (mm)
Eels	–	6	12	12
Grey Mullet	–	30	90	85
Snapper	27	10	125	100
Snapper (SNA1)	30	7	125	100



A combined daily limit of 5 (with no more than 3 kingfish) of the following finfish:

Finfish Species	Minimum fish length (cm)	Minimum set net mesh size (mm)	Minimum dragnet mesh size (mm)
Groper/Hapuku/Bass	–	160	100
Kingfish	75	100	100

No daily bag limit applies to the following finfish:

Finfish Species	Minimum fish length (cm)	Minimum set net mesh size (mm)	Minimum dragnet mesh size (mm)
Garfish (piper)	–	25	25
Pilchard	–	25	25
Yellow eyed mullet	–	25	25
All others	–	100	100

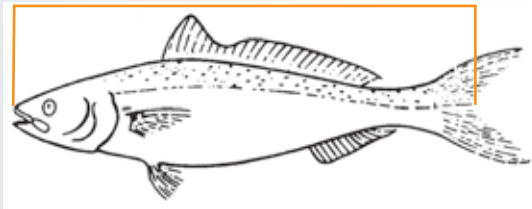
### SNA1 Region

SNA1 refers to the area from North Cape to Cape Runaway, out to a distance of 200 nautical miles offshore.



### Length measurement

Finfish length is measured from the tip of the nose to the middle ray or “V” in the tail.



### Method and species restrictions

#### Line fishing

- > No person may use or be in possession of more than 1 line (other than handlines or rod and reel lines).
- > All surface floats attached to any line must be marked permanently and legibly with the fisher's initials and surname. A phone number is also useful.
- > No person may use or possess a line with more than 25 hooks.
- > Where more than 1 person is using a line from a vessel (other than rod and reel lines), no more than 2 lines (other than rod and reel lines) may be used, set from or possessed on board that vessel.



## General netting restrictions

- > No person may set or possess more than 1 drag net, set net, fyke net, or any other type of net at any one time.
- > Nets must be hauled by hand.
- > Any net or nets used either individually or jointly must not extend across more than one-quarter of the width of any river, stream, channel, bay or sound.
- > No person may set or use a baited net (except fyke nets).
- > Nets must not be staked (except fyke nets).
- > No net may be used in a way that causes fish to be stranded by the falling tide (stalling).
- > Each end of a set net must have a surface float permanently and legibly marked with the fisher's initials and surname. A phone number is also useful. Only one float is required for fyke nets.

## Drag net restrictions

- > Drag nets must not exceed 40 metres in length.
- > Total warp length must not exceed 200 metres.

## Drift net restrictions

Drift netting is prohibited in any part of the Waikato River. A drift net is a net that acts by enmeshing, entrapping, or entangling any fish or marine life, and acts by drifting in the water, or on the surface of the water, and is not attached to a vessel or any point of land or the sea bed.

## Set net restrictions

- > Only 1 set net is allowed to be used from, or be on board any vessel. (An additional net is allowed for baitfishing if it is less than 10 metres long and has a mesh size of 50 mm or less).
- > Must not exceed 60 metres in length.
- > Must not be set within 60 metres of another net.
- > Stalling of set nets is prohibited.

## Minimum mesh sizes

There are restrictions on net mesh sizes for taking particular species as detailed under "FINFISH – Bag limits and size restrictions". In some cases the minimum mesh sizes for set nets are different from the minimum sizes for other nets such as drag nets.

## Protection of spotted black groper

**Spotted black groper:** no person may take or possess spotted black groper.





## Shellfish

### Sorting and measuring catch

The obligation to sort and count your catch arises when you legally “take” the shellfish. Exactly when this occurs has been the subject of discussion in the courts. A recent court case concluded that you should count and measure shellfish at the first reasonable opportunity and in that set of circumstances the first reasonable opportunity was on the seafloor as the shellfish were placed in the dive bag. Freedivers do not have as much time to measure on the seafloor so it is reasonable for them to do this at the surface.

### How to measure shellfish

**Paua:** measure the greatest length of the shell in a straight line, (do not measure over the curve of the shell).

**Scallop:** measure the greatest diameter of the shell.

**Dredge Oysters:** must not pass through a rigid circular metal ring with an inside diameter of 58 mm.



### Underwater breathing apparatus (UBA)

(Does not include snorkels)

- > No person may take paua using UBA.
- > No person may be in possession of paua while in possession of UBA. This includes possession in or on any vessel or vehicle.

### Open seasons

**Oysters:** There is no season restricting the taking of oysters. They can be taken all year round. However, oysters may not be taken from a small number of designated Māori reserves in the Northland and Waikato Region. Contact the Ministry for Primary Industries for the exact locations of these reserves.

**Scallops:** the open season is 1 September to 31 March inclusive. Specific area closures may apply, please contact your local MPI office for details.

### Protection of coral

**Black Coral:** no person may take or possess black coral.

### Paua accumulation limits

When daily limits are accumulated the maximum number or amount of paua that 1 person can have in their possession at any one time is:

- > 20 paua; or
- > shucked weight (shell removed) of 2.5 kgs of paua.

This possession limit applies everywhere, including in the home.



## Auckland and Coromandel Area

Recreational shellfish daily bag limits in the Auckland Coromandel area apply in the highlighted area depicted. This area extends on the east coast from Cape Rodney around the Coromandel Peninsula to Homunga Point (northern end of Waihi beach) and on the west coast from Okiritoto River (Muriwai Beach) to the sandspit at Port Waikato.



## Shellfish

### Bag limit and size restrictions

Shellfish Species	Daily limit per person	Auckland Coromandel area daily limit per person	Minimum size (mm)
Cockle	150	50	none
Kina (sea eggs)	50	50	none
Green-lipped mussels	50	25	none
Oysters – Dredge*+ – Rock & Pacific†	50 250	50 100	58 none
Paua – Ordinary* – Yellow Foot*	10 10	10 10	125 80
Pipi	150	50	none
Scallops+*	20	20	100
Toheroa#	Prohibited	Prohibited	Prohibited
Tuatua	150	50	none
All others • (combined)	50	50	none

\* Dredge oyster, paua and scallop must be landed in the shell and cannot be shucked or shelled seaward of the mean high water mark. This does not include dredge oysters and scallops shucked onboard for consumption while at sea within daily bag limits.

† Rock and Pacific oysters must not be opened while they adhere to the object on which they grow.

+ Limited provision allows only 1 diver diving from a vessel to gather extra bag limits of oysters and scallops for up to 2 other people acting in a dive safety capacity from that vessel.

# Toheroa must not be taken, possessed, or disturbed unless an open season is declared by the Director- General of the Ministry for Primary Industries.

• This is a combined, mixed-species bag limit. It applies to all shellfish species not specifically named above and includes all crabs, limpets, starfish, periwinkles, whelks, barnacles and freshwater crayfish (koura).



## Pot Limits

- > All pots and surface float must be clearly and permanently marked with the fishers surname and initials.
- > Individuals may use, set, or possess up to 3 pots in any 1 day.
- > 2 or more individuals fishing from a vessel may use, set, or possess up to 6 pots in any 1 day provided they have their name on the pots and that each person is using no more than 3 of the pots.
- > Mimiwhangata Peninsula – 1 pot per person per vessel.
- > Bobs and ring pots may be used to catch rock lobster but all other requirements such as marking and pot limits apply.
- > Species specific pots (cod pots, crab pots etc) can be used. They are exempted from escape gap requirements but all other requirement such as marking and pot limits remain.

## Rock Lobster

### Daily limit

No person may take or possess more than 6 rock lobsters (both species combined) on any one day.

### Possession

Rock lobster may not be possessed seaward of the high water mark in an unmeasurable state.

### Protected rock lobster

The following types of rock lobster must be returned immediately to the water:

- > Undersized rock lobsters.
- > Any rock lobster carrying external eggs (these are carried between the pleopods on the underside of the tail).
- > Any rock lobster in the soft shell stage.
- > Any rock lobster that cannot be measured (e.g. because of damage to the tail preventing accurate measurement).

### General restrictions

It is an offence to:

- > Remove external eggs or the egg-bearing appendages from any rock lobster.
- > Use a spear or any device which could puncture the shell when taking rock lobster, or possess any rock lobster which has been speared.

### Lassoos

Only hand operated loops or lassoos may be used to take rock lobster. It is prohibited to use a spring loaded loop or lasso.

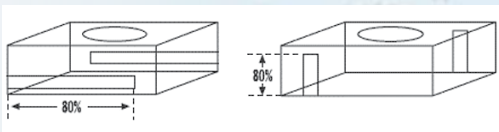
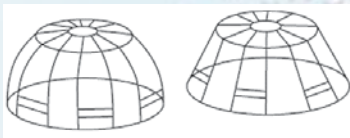
### Use of pots

All rock lobster pots must have an escape gap as detailed under “ESCAPE GAPS RESTRICTIONS”.



## Escape gaps restrictions

- > No escape gap or aperture shall be incorporated in either the top or the bottom of any pot.
- > Escape gaps or apertures are designed to allow undersized rock lobster to escape.
- > Round or beehive shaped pots must have at least 3 escape gaps/or apertures (other than the mouth). Each aperture must have an inside dimension of not less than 54mm x 200mm.
- > Square or rectangular shaped pots must have at least 2 escape gaps/ or apertures (other than the mouth) in opposite faces of the pot. Each aperture shall not be less than 80 percent of the height or length of the face of the pot in which the apertures are contained. Each aperture shall have an inside dimension of not less than 54mm x 200mm.
- > Any rock lobster pot constructed entirely of unaltered spot welded mesh with inside dimensions of 54mm x 140mm does not have to have escape gaps/or apertures but the pots must be used without covers or liners or with covers or liners that leave unencumbered at least 80 percent of the surface area of each of 2 opposite sides.



## Minimum sizes

No person may take or possess

- > Male red rock lobster with a tail width less than 54mm.
- > Female red rock lobster with a tail width less than 60mm.
- > Packhorse rock lobster (either sex) with a tail length less than 216mm.

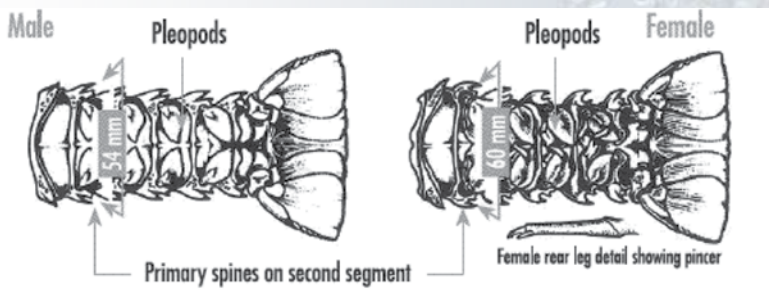
## How to measure a red rock lobster

The tail width is measured in a straight line between the tips of the 2 large (primary) spines on the second segment of the tail, as shown in the diagram which follows.

The sex is easily determined:

- > Females have small pincers on the rear pair of legs.
- > Pleopods are in paired form on each side of the underside of female tails, and are in single form in male tails.

If you are unsure of the sex, use the 60mm measurement and you will be safe.





## How to measure a packhorse rock lobster

The tail length is measured along the underside in a straight line from the rear of the calcified bar on the first segment to the tip of the middle fan of the tail.



## Closed and restricted areas

There are closed and restricted areas where no fishing is allowed, these may be closed by the Ministry for Primary Industries as prohibited areas (e.g. area near the Auckland International Airport and Tawharanui Peninsula) or by the Department of Conservation as marine reserves (e.g. Long Bay – Okura Marine Reserve).

Within the North Region there are locations which are closed to shellfish gathering. The following notes identify some of the areas, but this should only be used as a guide as closures may change from time to time. If you are unsure of the location of closures or the species subject to closure, you should contact your nearest Ministry for Primary Industries office.

### Shellfish closed areas

Umupuia Beach – closed to taking of cockles for 2 years from 25 October 2012. Cockle Bay – closed for taking of all shellfish 1 October to 30 April each year inclusive. Whangateau Harbour – closed to taking of cockles and pipis from 25 March 2010.

The following areas within Auckland are closed to all shellfish gathering:

Eastern Beach, Karekare Beach, and Cheltenham Beach.

### Shellfish restricted areas

Daily limit for green-lipped mussels in Maketu Taiapure

It is unlawful for any person to take or possess more than 25 green-lipped mussels per day in the Maketu Taiapure area.

Daily limit for mussels in Mount Maunganui Mataitai Reserve

It is unlawful for any person to take or possess more than 25 mussels per day in the Mt Maunganui Mataitai area.

### Set net closed areas

A set net includes a gill net or other sort of net that acts by enmeshing, entrapping, or entangling fish; but does not include a fyke net or hinaki.

The following areas are closed to set netting: Three Kings Islands, Cape Reinga – Scott Point, Reef Point to Whangape Harbour, Bay of Islands (Cape Wiwiki, Whale Rock, The Twins – Cape Brett) northern side of the Hen and Chickens, Mokohinau Islands, Simpson Rock, Little Barrier, Great Barrier (Needles Point, eastern side of Arid Island, Cape Barrier), Channel Island, Cape Colville, most of the Mercury Islands, Pauanui, Tamaki River, Panmure Basin, Muriwai Beach, Karekare Beach, Pariokariwa Point to Maunganui Bluff, Manukau Heads and Cape Runaway.



### Set nets and set lines

These methods are prohibited in the following places: all year round the Poor Knights Islands, Mimiwhangata, and Mayor Island; from 1 October to 30 April in the Eastern Bay of Islands (except for grey mullet and flatfish nets); from 1 December to 31 March for 6 nautical miles from Okatoa Rock (near Motu River mouth). Contact the Ministry for Primary Industries for the exact locations.

Set netting is prohibited between Maunganui Bluff north of Kaipara Harbour and Pariokariwa Point north of New Plymouth – offshore to seven nautical miles.

Set netting is prohibited at the entrance of the Kaipara, Manukau and Raglan harbours as well as at the Waikato River entrance

Set Net Ban Area



#### Check the rules

Download our free fishing rules app from [www.mpi.govt.nz](http://www.mpi.govt.nz).

Free text the name of the species you are fishing for to 9889 and you will receive the size and limit number by return text.

For more information on fishing rules go to [www.mpi.govt.nz](http://www.mpi.govt.nz).



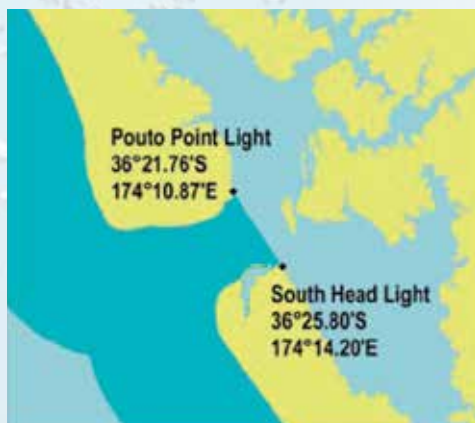
#### Contact Fishery Officers

Ministry for Primary Industries  
Whangarei (09) 470 0580  
Auckland (09) 820 1990  
Mt Maunganui (07) 571 2820  
Whitianga (07) 866 0549  
Hamilton (07) 859 3126  
Kaitiaki (09) 408 6024  
Whakatane (07) 308 9876

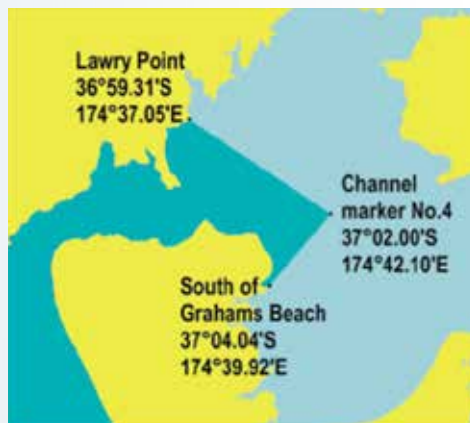
0800 4 POACHER (0800 476 224) to report illegal poaching or fishing.



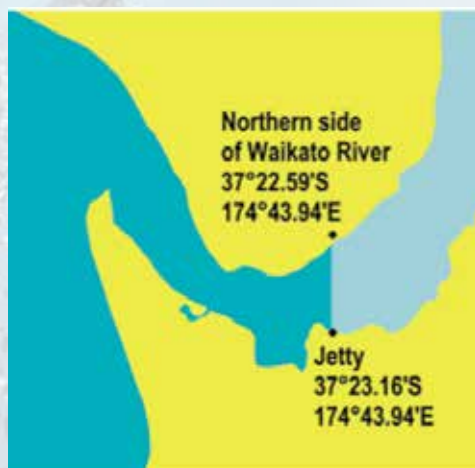




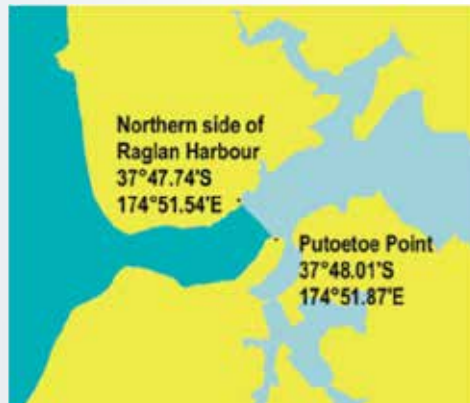
Set net prohibition in the Kaipara Harbour entrance



Set net prohibition in the Manukau Harbour entrance



Set net prohibition in the Waikato River entrance



Set net prohibition in the Raglan Harbour entrance

## IMPORTANT

Unless specified, the prohibition does not apply to rivers and harbours – subject to any other fisheries restrictions, you can use set nets in these areas inside a straight line joining the natural entrance points of the waterway. The regulations define these points in some cases because they are not always clear.

In addition there are other set net prohibitions and restrictions in place to protect Maui's dolphins.

You must check for set net prohibitions and restrictions in the area where you plan to fish. Before you go fishing visit [www.mpi.govt.nz](http://www.mpi.govt.nz) or call your nearest Ministry for Primary Industries office.



# Current Biosecurity in the Hauraki Gulf Islands

(Based on: Bassett I. E. et al., (in press) Treasure Islands: Biosecurity in the Hauraki Gulf Marine Park)

The Hauraki Gulf Marine Park (HGMP) was established in 2000. The islands within the HGMP are home to one of the highest diversities of seabirds in the world and refuges for terrestrial birds, reptiles, invertebrates and plants and remain the last bastions of sanctuary for New Zealand's remaining native species. They often have low population sizes and this makes them vulnerable to attack from animal and plant pests. A population doesn't need to establish on an island to cause substantial impacts on native wildlife. Many birds and reptiles are vulnerable to a single rat, cat or stoat.

Eradications have been occurring for mammals on the islands since the 1960s and some of the early eradications are now reporting substantial species and ecosystem recoveries. Once eradications are in place it is possible to develop programmes to restore and recover endangered species. For example, there are now releases and established populations of saddleback and little spotted kiwi on Motuihe. Takahe are well established on Tiritiri Matangi and recently Motutapu, and there are North-Island brown kiwi on Motuora and Rotoroa. These are just a few examples of the extensive and successful releases that are ongoing projects. However, to protect these re-introduced native species, on-going biosecurity work is required to keep these islands pest-free.

While natural processes undoubtedly contribute to island invasions, people are a major source of transport of pests to the islands on clothing, footwear, gear and vessels. The HGMP is heavily used by both commercial and recreational vessels. Pest Free islands are popular with visitors, particularly Rangitoto and Tiritiri Matangi.

The Treasure Islands campaign is an integrated, joint agency (Auckland Council and Department of Conservation), multi-species approach encompassing islands owned or managed by both central and local government as well as private individuals. The messaging is clear: 'check your boat and gear for stowaways' and includes signage, detection dogs, articles and the 'Pest-Free Warrant' (PFW) accreditation system for commercial and non-commercial vessels and tourism operators. Over 40 companies operating in the HGMP are involved in the PFW system and a recent survey suggested that over 70 % of public interviewed understood and adhered to the campaign messages.

The campaign includes awareness on rats, Argentine ants, weed seeds, plague (rainbow) skinks and kauri dieback disease. Given this variety of pests that can be transported to off-shore islands, communicating a multi-species approach is vital. While many people are aware of large mammal pests such as rats and mice, they may not be as aware of the impacts of seeds and plant diseases as well as smaller critters such as Plague skinks and Argentine ants that often go undetected on or in goods destined for HGMP islands from mainland businesses such as nurseries and construction.

So given these successes, what can the future hold? Rakitu (Arid) Island at approximately 300 hectares is in DOC sights and the larger inhabited islands of Waiheke and Aotea have potential for increased management of mammal pests. Waiheke and Aotea are currently the source populations for reinvasion of neighbouring mammal-free islands by rodents and mustelids. This presents a difficult yet exciting challenge as the management of pests on islands with substantial resident human populations can only be achieved with wide-reaching support from local communities. Another challenge is the variety of exotic plants in people's gardens which may contribute to the distribution of weeds on HG islands.

What is certain is that the Pest Free islands of the HGMP are a success. To keep them a success, we all have a part to play when visiting HG islands. Always check your gear and make sure items are contained in closed bags when travelling to and from islands. Make sure all footwear and fishing or camping gear is clean and free from loose soil or dirt. For more information on pest free islands and to see the full version of this article visit: [www.treasureislands.co.nz](http://www.treasureislands.co.nz).



# KAURI UNDER THREAT

## KAURI DIEBACK IS KILLING OUR KAURI TREES

Kauri dieback is a fungus-like disease that kills New Zealand kauri trees of all ages and sizes. It is spread mainly through soil movement on equipment such as footwear, machinery and mountain bikes.



## WHAT HAPPENS TO KAURI?

**Microscopic spores** in the soil infect kauri roots and damage the tissues that carry nutrients within the tree. This effectively starves the tree to death.

**Symptoms of kauri dieback** include thinning canopy, yellowing leaves, bleeding gum and dead branches. Nearly all infected kauri die.

## SAVING OUR KAURI FORESTS

Scientists are working hard but there is no known cure at this time. The only way we can save our kauri is to contain the disease where it is and stop the spread into healthy areas.

**The treasure islands** of the Hauraki Gulf are mainly free of kauri dieback disease. We need to protect these healthy trees!

### WHEN VISITING KAURI AREAS ALWAYS:



#### CLEAN YOUR GEAR

Remove soil before AND after forest visits - clean your shoes, tyres and equipment



#### STAY ON THE TRACK

AND off kauri roots



[WWW.KAURIDIEBACK.CO.NZ](http://WWW.KAURIDIEBACK.CO.NZ)



[/THEKAURIDIEBACKMANAGEMENTPROGRAMME](https://www.facebook.com/thekauridiebackmanagementprogramme)

**KEEP KAURI STANDING**  
STOP KAURI DIEBACK DISEASE SPREADING **KIA TOITU HE KAURI**







Key		Which Islands are pest free?	
	Hauraki Gulf Marine Park	✓ Rangitoto Island & Motutapu Island	✓ Hautunu (Little Barrier Island)
	Marine reserve/marine park – No fishing	✓ Motuihe Island	✓ Kaikoura Island (Selwyn Island)
	Nature reserve – No landing without a permit	✓ Browns Island (Motukorea)	✓ Motuhaku Island
	Partly pest free	✓ Rakino Island	✓ Broken Islands (Pig Islands)
	Pest free	✓ The Noises	✓ Mokohinau Islands
		✓ Tiritiri Matangi Island	✓ Te Haupa Island (Saddle Island)
		✓ Motuora Island	✓ Rotorua Island
		✓ Beehive Island (Tangamaro)	✓ Pakatoa Island



# Coastguard

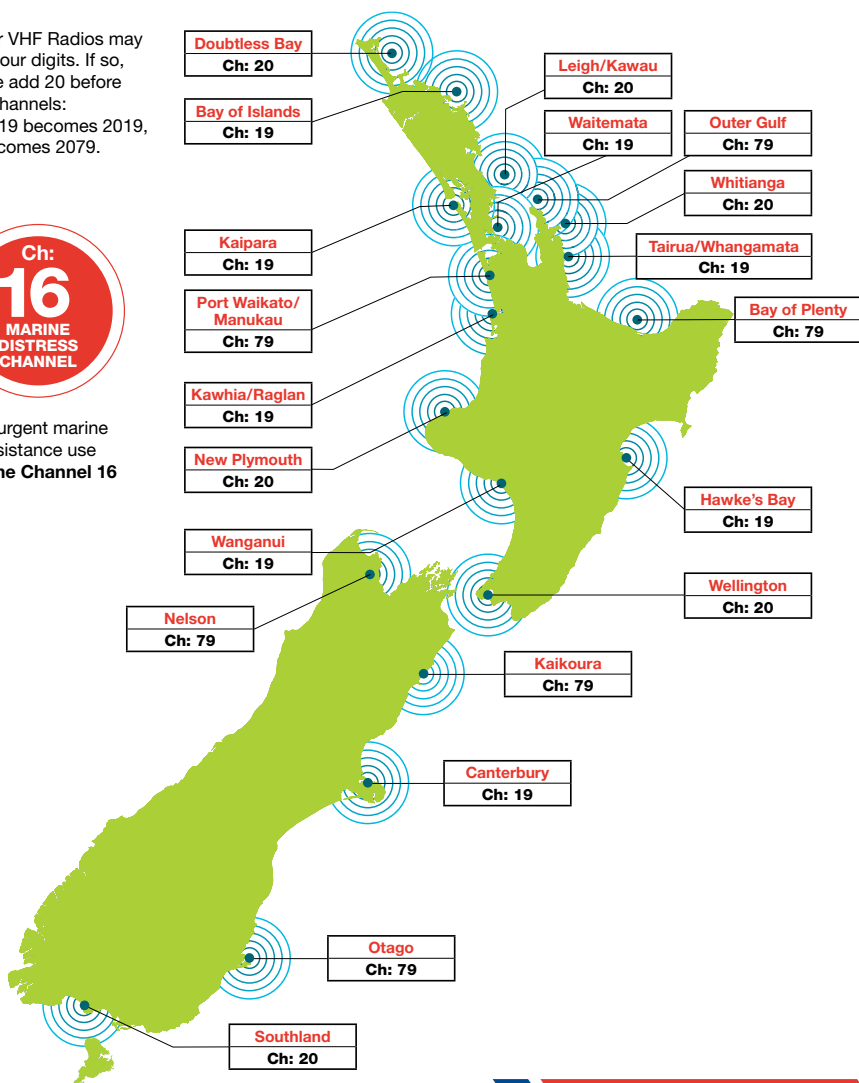
## Nowcasting Weather Information Channels\*

CHANNELS EFFECTIVE FROM 1 OCTOBER 2016

Newer VHF Radios may have four digits. If so, please add 20 before new channels:  
e.g. - 19 becomes 2019,  
79 becomes 2079.



For urgent marine assistance use  
**Marine Channel 16**



\*24/7 marine wind and weather conditions via VHF radio





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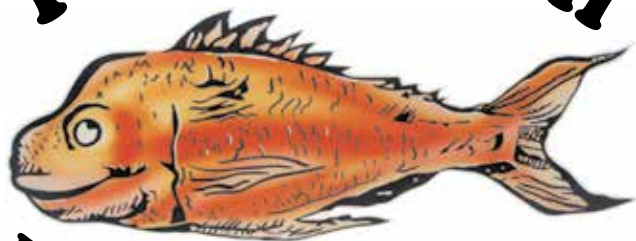
Ph 303-4089

Fax 307-6499

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# Buoys & Beacons ...

## Port-hand Markers:

To be passed on the port hand when travelling with buoyage direction (approaching a harbour, estuary or waterway from seaward).



**Colour:** Red

**Shape:** can, pillar or spar,

**Topmark:** (if any) a red can

**Light:** (if any) red, any rhythm, other than prescribed for a preferred channel marker.

## Starboard-hand Markers

To be passed on the starboard hand when travelling with buoyage direction (approaching a harbour, estuary or waterway from seaward).



**Colour:** green.

**Shape:** conical, pillar or spar.

**Topmark:** (if any) a green cone.

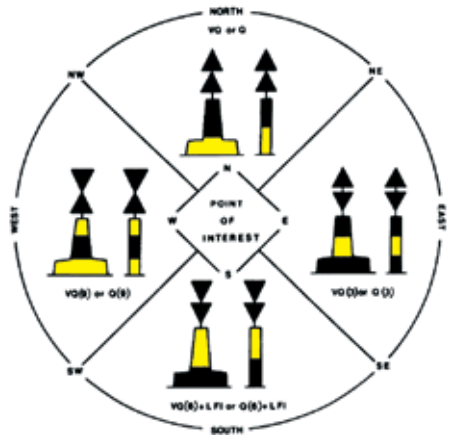
**Light:** (if any) green, any rhythm other than that prescribed for a preferred channel marker.

## Cardinal Marks:

These marks are used to indicate the side of a danger (or any other feature) on which it is safe to pass. They may also show where to find the deepest water in the area, or may draw attention to a bend or junction in a channel, or mark the end of a shoal.

Cardinal marks take their name from the cardinal points of the compass and should be passed on the named side of the mark.

Lights: All cardinal marks carry a white light which may be quick flashing (60 or 50 flashes per minute), or very quick flashing (120 or 100 flashes per minute) in the characteristic shown here. The concept of 3, 6 and 9 and is easily remembered if associated with a clock face.





# First Aid

Must have an Airway, must be breathing, must have a pulse and must not be bleeding to death.

## Primary Survey

Finding and treating life threatening conditions;

Simple mnemonic to help you remember the sequence of actions:

## Safety ABC

### Safety

Stop, take a deep breathe and check for safety. If it is dangerous move the casualty to a safe place.

### Response

Assess responsiveness by shouting, "Hello can you hear me?" If no response, use your thumb nail and squeeze both ear lobes firmly. Any response is a good sign!

### Airway

Open the airway – tilt their head back by placing your hands under their chin and on their forehead. This lifts the tongue off the back of the throat, opening up the airway.

### Breathing

After establishing that the airway is clear and open, check for breathing. If the breathing is slow, the rescuer might need to give assisted breathing.

**Look** – for the rising and falling of the chest

**Listen** – for breathing, by placing your ear close to the person's mouth

**Feel** – for chest movement (breathing, by placing your hand on the persons chest and feeling for warmth of their breath on your cheek when exhaling.

If no normal breathing is present and there are no other signs of life, start CPR.

### Circulation

To determine circulation we can check for "signs of life".

**Pulse** – if they have one – carotid artery in the neck beside the Adam's apple.

**Pupils** – for any movement

**Movement** – breathing, swallowing, limb movements, etc

**Skin colour** – normal colour

If you cannot locate a pulse and the person is not showing any signs of life (blue/grey skin, lack of movement), start CPR

## Adult CPR (aged 8yrs and older)

- 30 compressions : 2 breaths
- Two hands pushing down in the centre of the chest in line with the armpits, about 5cm depth
- Rate of 100 compressions per minute.
- Recheck the pulse every 2 - 5 minutes

## Child CPR (aged 1yr – 8yrs)

- 2 breaths : 30 compressions
- One hand pushing down in the centre of the chest in between the nipple line
- 5 compressions should take 3 seconds
- Recheck the pulse every 2 – 5 minutes

## Infant CPR (aged 0 – 1yr)

- 2 breaths : 30 compressions
- Two fingers pushing down in the centre of the chest in between the nipple line
- 5 compressions should take 3 seconds

## Choking Conscious Adult/Child

- Confirm the person is choking
- Stand behind the person, give the Heimlich manoeuvres
- Continue until the object is cleared

## Choking Unconscious Adult/Child

- Call for help
- Start CPR
- Continue until the object is cleared or help arrives

## Choking Infant

- Confirm the infant is choking
- Start CPR
- Call for help

The second part of Circulation is **Severe Bleeding**



### **Severe Bleeding**

Severe bleeding is uncontrolled arterial bleeding (bright red blood pumping out under pressure)

1. Airway and Breathing comes first
2. Identify and fully expose the severe bleeding
3. Immediately apply Direct Pressure (ensure that gloves are worn or a barrier (plastic) used to reduce the risk of infection) for a minimum of 20 minutes
4. While maintaining direct pressure, apply a wound pad, cover the pad with a plastic dressing and bandage the wound. Continue Direct Pressure
5. If possible elevate

### **Shock**

Shock is present in all injuries and should be treated as soon as possible.

1. Treat the cause
2. Elevate the legs (splint any fractures first)
3. Keep warm
4. Reassure – talk to the casualty, tell them what you're doing and why you are doing it. Ask them questions, does not matter if they are conscious or not, talk to them as if they are awake

### **Calling for Help**

Send someone to get help if the casualty is unresponsive, seriously ill or injured. If you are not sure whether the emergency services are needed, call anyway; they can help you decide (includes Westpac helicopter services)

- 111 – All emergency services
- \*500 – Auckland Marine Rescue Centre
- Ch 16 – VHF – Auckland Marine Rescue Centre

Give whatever details you can regarding the circumstances.

### **Secondary Survey**

This is the identification of problems other than those relating to the airway, breathing and circulation, which were identified during the ABC assessment. Although some additional problems will be obvious at first glance, the secondary survey will involve questioning and physical examination of the casualty. Start at the head and work your way systematically down the body looking

for any other injuries. Treat any life threatening injuries as you find them (if missed during the first sweep). For all other injuries treat at the end based on the severity of the injuries – treat the worst first

### **Recovery Position**

This is used to maintain the Airway

- Kneel beside the person. The casualty will be moved towards you
- With the casualty lying on their back, extend the arm nearest to you and tuck the hand under their ear
- Bring the other arm across the chest
- Bend the knee farthest away from you
- Grab their shoulder and raised knee and roll them towards you onto their side – keeping the head, neck and spine in line
- If required tilt the head to ensure the airway is open
- Stabilise the position with pillows, blankets and jackets, or hold the casualty in position

At the end of the Secondary Survey treat any non-life threatening in order of severity; most serious is treated first, loosely based on the 4Bs

### **Specific Care**

Give specific emergency care for specific illnesses or injuries identified during a secondary survey (or earlier).

As a general rule the order of priority for specific treatments is the 4Bs:

1. Life threatening conditions (ABCs)
2. Breathing
3. Bleeding
4. Burns; and
5. Breaks

### **Abrasions**

An abrasion is a graze of the skin. Clean the area thoroughly with gauze and water. Remove any gritty particles and dab with antiseptic solution. If required, apply a dressing to the area.

### **Amputation**

If a body part has been amputated always call for help. Manage bleeding using pressure and elevation.



Care for the amputated body part by:

- Do not wash or clean the part
- Place inside two sealed plastic bags
- Label the bag with the name, date and time of the accident
- Wrap the bag in a towel, then place in a slurry of ice and water (never just ice).

### **Angina**

Angina is the pain felt when there is temporarily insufficient blood flow to the heart muscle to meet the heart's needs.

Angina is characterised by:

- Pain in the chest, neck, jaw or arms, brought on by effort or excitement
- Symptoms usually last for less than 15 minutes
- Sweaty, pale skin
- Short of breath
- Often confused with a heart attack and vice versa

Most people who have a history of angina carry angina spray with them (a red and white bottle), which is sprayed under the tongue. Soluble aspirin can also be administered. Rest the person, administer oxygen (if available) and loosen any tight clothing. If this is the first time they have had an attack, call for help immediately.

### **Bruises**

A bruise is bleeding into the tissues. Specific treatment is not necessary unless there is severe bruising around a joint. A cold compress firmly bandaged into place will usually ease pain. Massaging oil is not recommended.

### **Burns**

Burns are generally caused by heat, chemicals, electricity, cold or friction. In serious burns, there may be no pain because the nerve endings have been damaged.

To decide how serious a burn is, look at:

- Size – larger than the palm of the hand
- Depth
- Location (face, inhalation (including smoke), hands, feet and genital areas are of greatest concern)
- Cause
- Age of casualty (particularly under 5 and elderly)

**Cool** – the burned area for 10 - 20 minutes

**Clear** – the area of anything that may keep burning (jewellery, contaminated clothing) etc

**Cover** – the area with clean plastic – do not wrap tightly as the burn will swell

### **Concussion**

This is complete or partial unconsciousness caused by a blow to the head. It should always be treated very seriously, whether or not there is a visible injury. There may be memory loss, nausea and vomiting, dizziness, headache or blurred vision. If the casualty is unconscious, maintain an open airway and keep them still as much as possible until help arrives. Give nothing via the mouth. If they start to vomit, roll into the recovery position. Call for help immediately.

### **Cramp**

It is important that a swimmer should not panic if they develop cramp in the leg while in the water. The swimmer should turn onto their back and propel themselves to safety. Once out of the water, stretch the leg by pulling toes towards the head and massage vigorously. Apply heat if possible.

### **Crush Injury**

When a casualty has been trapped under a heavy object for a long period of time, toxic substances build up in the muscles and can be fatal if they are released suddenly into the system.

If the person has been crushed for more than fifteen minutes to one hour they should NOT be released until medical help arrives to treat the toxins.

For a casualty who has been crushed and can safely be released within fifteen minutes to one hour, treat their injuries as able. Seek medical help.

### **Cuts**

If small, wash with water and dry gently. Apply an adhesive dressing or bandage.

If the cut is bleeding freely, apply firm pressure over the wound with a clean dressing and elevate. A severe cut will



bleed less freely if elevated and pressure applied. Seek medical assistance.

### **Dislocation**

A dislocation occurs when bones which meet at a joint are moved from their normal position. Common joints include: shoulder, knee, elbow and fingers. Usually there is severe pain, deformity and swelling. Support the area in its injured position, apply a cold pack to reduce swelling and call for medical help. Do NOT try to relocate the joint.

### **Drowning**

Send someone for medical assistance immediately. Get the person out of the water. Clean the airway using a combination of Recovery Position and finger sweeps – keep the head lower than the body and if possible slightly forward, assisting with clearing the airway. Once the Airway has been cleared, lay them on the ground on their back and open the airway. Pinch the nose and give a breath. The chest should rise and fall. Keep giving them a breath every 5 seconds, (one every 4 seconds for a child), until the person breathes and maintains good colour.

### **Fainting**

Fainting is a brief loss of consciousness caused by a temporary decrease in the flow of blood to the brain. Lie the person down and raise their legs. Loosen any tight clothing and call for help if they remain unconscious for more than 5 minutes.

### **Fish Hooks**

Push the barb right through, cut off the tip/eye and pull through. Clean thoroughly with an antiseptic. If near a joint or eye seek further medical advice

### **Foreign Body in Eye**

Use an eye bath or bowl and try to float the object (e.g., grit) out. Or gently pull the upper lid over the lower lid and blink lots. If this doesn't work, place a soft pad over both eyes and seek medical help.

If a larger object is in there, do NOT pull it out. Reassure the person and seek help.

### **Foreign Body in Ear**

Try pouring in warm water or olive oil, as this may float the object out. If not successful, do not poke at it, seek medical help.

### **Fractures**

A fracture is a break or crack in the bone. It may be identified by; pain at the site, swelling, deformity, inability to use the area or blood loss (internal or external).

Treat the bleeding with pressure, cover the bone if exposed, immobilise the injured area, treat for shock and call for medical assistance.

### **Early Heat Illness (heat exhaustion)**

Occurs due to excessive loss of body fluid and body salts. It is often seen as; pale sweaty skin, headache, dizziness, feeling sick, muscle cramps and body temperature normal (or near normal).

Rest in a cool place. Lying down, remove excess clothing, and sip at cool water.

### **Late Heat Illness (Heat Stroke)**

Occurs when the core temperature-regulating centre in the brain overheats and fails. It is often seen as; headaches, hot, flushed, dry skin, decreased level of consciousness, body temperature well above normal.

Call for help. The aim of treatment is to rapidly cool the casualty by resting in a cool place and wrapping them in wet sheets. Fan them vigorously and keep cooling.

### **Heart Attack**

The heart is like every other muscle in the body and needs a good blood supply to provide it with oxygen. A heart attack occurs when there is a reduced blood supply to a part of the heart muscle, damaging that area.

Symptoms include; heavy pressure, tightness, crushing pain in the chest (pain may spread to the shoulders, neck, jaw, arms, or back), sweaty pale skin, feeling faint, short of breath. (Symptoms usually last more than 15 minutes).

Rest the person quietly in a comfortable position, call for medical help, monitor the ABC's especially the pulse closely – look for a decreasing level of consciousness, an



irregular pulse and the pulse becoming difficult to find or disappears. Contact Medical Advice, rest, administer oxygen (if available) and, if told, administer an aspirin under the tongue.

### **Hypothermia**

Hypothermia occurs if the core body temperature falls below 35 degrees Celsius. It most often occurs in the outdoors, where wet, cold and wind combine to create a cooling effect.

Early signs are; feeling cold and shivering, tiredness, slurred speech, loss of co-ordination, stumbling, clumsiness, changes in behaviour – anxiety, irritability, irrationality. Later signs include; shivering stopping and unconsciousness.

To manage this, the focus is on preventing further heat loss and gently re-warming of the core temperature. For example; seek shelter, remove wet clothing and replace with dry clothing and a woollen hat, give warm sweet drinks (not alcohol), place a warm hot water bottle (not hotter than 37 degrees Celsius) wrapped in a towel directly over the heart. If unable to do this, then place in a sleeping bag with a warm companion.

Do not rub the casualty; place them in a hot bath or near an open fire.

### **Nose Bleed**

Get the person to sit down, leaning forwards. Tell them to breathe through their mouth and pinch the soft part of their nose. Maintain pressure for at least 10 minutes. An ice pack may be used. If the bleeding continues for more than 30 minutes, seek medical assistance.

### **Poisoning**

Poisons can enter the body through skin, lungs or mouth. Look for; vomiting, burned lips and mouth, skin rash or swelling, breathing difficulties, seizures, or altered level of consciousness.

Find out; **What, When and How** much.

In all cases of known or suspected poisoning seek immediate medical help. The signs and symptoms of poisoning can be delayed by hours or even days. If

conscious they may advise to drink 1 – 2 cups of water. **Do**

### **NOT induce vomiting**

Poisons Centre Ph: 0800 764 766, of Ch16 if outside of cell coverage

### **Sea Sickness**

Medication and bracelets are available from pharmacies for sea sickness – it is best to try these before you go on the water for the first time as some of the common S&S of medication is nausea, vomiting and drowsiness

It helps to keep the person occupied, away from the fumes and looking out at the horizon.

### **Seizure**

Seizures occur as a result of a sudden and brief electrical discharge taking place in the brain. The person may; lose consciousness, stiffen up briefly, contract and relax their muscles involuntarily. Bladder and bowel control may be lost during this event.

Call for medical assistance if; it is their first time, they hurt themselves, are pregnant, lasts longer than 5 minutes, don't regain consciousness, seizure stops and starts intermittently or involves water.

Keep them safe. Do NOT try to put anything in their mouth. Place in the recovery position afterwards. They will be extremely tired after a seizure and will require close monitoring

### **Splinters**

If the end is protruding sufficiently, draw the splinter out gently with tweezers and cover with a dressing. If it cannot be grasped, bathe in hot water and apply gentle pressure behind the splinter to see if you can ease it out. If this is not possible, cover with a dressing and repeat bathing and pressure at intervals, until you are successful.

### **Sprains**

Muscles, ligaments, tendons and skin are able to be stretched and can also tear if over stretched.

Pain, swelling, bruising and decreased mobility are usually noticed.

Stop the activity, rest the area, ice pack for 20 minutes (only use fresh water ice not sea ice), firmly apply a pressure



bandage and elevate the limb... If it does not improve in 48 hours, or seems to be more serious than first considered, seek medical assistance.

### **Stings**

If the sting is left behind, scrape it out with the back of a knife. Mix Baking Soda and a little water, to make a paste and apply. A sting in the mouth must be treated seriously. Sucking ice may help to reduce the swelling until medical help arrives.

### **Stroke**

A stroke occurs when the blood supply to the brain is impaired by a blood clot or a burst blood vessel.

Check for facial differences between each side, have them repeat several sentences back to you, note if there are any problems with the speech. Check for strength and wavering of the arms when held out in front – if any one of these tests is abnormal then the patient may have had a stroke.

Some of these symptoms may be present; sudden severe headache, signs of weakness or paralysis, confusion, inability to speak or inappropriate words chosen, or loss of consciousness.

Call for medical help immediately, place in recovery position, and reassure the person.

### **Sunburn**

Rest in a cool room. Cool compresses and a fan will help. Drink plenty of water and medical help should be sought if burns are severe.

### **Basic First Aid Kit Contents**

Description	Quantity
Bandages (large)	x 2 - 5
Sterile dressings	small, medium & large
Adhesive tape	x 1
Wound Dressing	x 5
Band Aids	x 10
Dressing strip	50cm
Scissors	x 1
Splinter forceps	x 1
Triangular bandage	x 2 – 3
Saline solution	30 mls
Plastic bags	x 3
Foil survival blanket	x 3 - 5
Disposable gloves 2 pairs	
Pencil	x 1
Notebook	x 1
Resuscitation face shield	X 1
Thermometer (Optional)	X 1
Antiseptic solution (iodine recommended)	x 1



# Safety on the water

## Navigation Safety Bylaw and safe boating advice



### Lifejackets: take them, wear them

- you must carry a suitable lifejacket for every person on board your vessel
- if your boat is 6m or smaller, everyone on board must wear their lifejacket unless the skipper says it is safe to remove it
- lifejackets must be worn on all vessels in times of increased risk.



### Be a responsible skipper: keep everyone safe

- every boat must have a skipper
- the skipper is in charge of the safety of everyone on board and should know the boats limits
- check the weather forecast first – if in doubt, don't go out.



### Carry a means of communication: mobile phone, VHF radio, flares or beacon

- Communication equipment is an essential part of safe boating – if you can't contact someone on shore to say you're in trouble, nobody can rescue you.
- tell someone before you go out on the water.



### Reduce your speed: around people, vessels and the shore

- The speed of all vessels must be no more than 5 knots when the vessel is:
- within 50m of any other vessel
  - within 50m of any person in the water
  - within 200m of the shore, any structure or vessel flying a dive flag.



### Avoid excessive alcohol

- Alcohol can affect your ability to react when something goes wrong on the water:
- the skipper in charge of a vessel must not be intoxicated
  - drinking alcohol could increase the likelihood of you ending up in the water by accident
  - it can change the way your body reacts when entering the water.



## Jet skis and personal watercraft

- you must observe the 5 knot speed limit as for all other vessels
- you must register your personal watercraft and display the registration number clearly on the vessel
- to register, contact Auckland Council Harbourmaster's office on 09 362 0397 or visit [aucklandcouncil.govt.nz/harbourmaster](http://aucklandcouncil.govt.nz/harbourmaster)
- enjoy your personal watercraft but please show consideration for other water users.

## Water skiing

Access lanes for waterskiing are marked by orange and black posts on shore and/or orange and black buoys. Use these access lanes when departing or approaching the beach if your vessel is travelling at more than 5 knots.

Important water skiing rules:

- you must observe the 5 knot speed rule at all times
- all ski boat drivers must be over 15 years of age
- any vessel towing a water-skier must have on board an observer in addition to the driver.

## Windsurfers and Kite Surfers

- when using your windsurfer or kite board you must keep 50m clear of any persons in the water if travelling at more than 5 knots
- enjoy your sport but please show respect and consideration for other water users.

## Divers

For your own safety always:

- dive in pairs
- avoid diving in areas where there is a lot of boat traffic
- display the International Code "A" Flag from your dive vessel  
(*This must be a solid replica of the Code "A" Flag and be a minimum of 600mm in the hoist*)
- if diving without a vessel, please make your location conspicuous by using an appropriate buoy and dive flag to mark your location.



## Speed restricted areas

A permanent speed restriction applies in the following areas: Bon Accord Harbour (Kawau Island) – 5 knots and Waitemata Harbour (Harbour Bridge to North Head) – 12 knots.

## Moorings

There are a number of mooring zones around the Auckland Region. If you wish to permanently moor a vessel anywhere in the Auckland Region you will need to first obtain a mooring licence. Contact the Auckland Council Harbourmaster's office for further information.

For full details on how to be safe on Auckland's waterways, please consult the Navigation Safety Bylaw or visit [aucklandcouncil.govt.nz/harbourmaster](http://aucklandcouncil.govt.nz/harbourmaster)

► **Find out more:** phone 09 301 0101



# IS YOUR HULL 100% FREE OF MARINE PESTS?

A silhouette of a diver is shown underwater, swimming towards the right. The diver is wearing a mask and fins. The background is a deep blue gradient representing the underwater environment.

## ARE YOU SURE?

Marine pests can hide away in nooks and crannies, and even on your keel base. A dirty hull means you run the risk of being turned away from your marina, failing a spot check, or infecting your favourite environment with a marine pest such as Mediterranean fanworm.

Get all the latest at **[marinepests.nz](http://marinepests.nz)** - the cruisers' guide to marine biosecurity.

Auckland Council, Bay of Plenty, Northland and Waikato Regional Councils, and Ministry for Primary Industries - working together to stop the spread of invasive marine pests.



# Alternative Facts – Island living

By Ruth E. Henderson



Are you ready to swap your boat for a bach? Are you tired of having to haul anchor in the middle of the night when there's a wind shift, sick of being confined to a cabin in foul weather? Fancy a holiday home practically on the water, on an Island even? As a boatie you'll have done your 'apprenticeship' on 'roughing it' and being minimalistic and are probably well-suited to island life... But before you leap overboard here's some "alternative facts", from someone who has lived on Kawau Island in the Hauraki Gulf for 14 years.

Of course, there are islands and islands. First choose your level of independence. Waiheke is essentially part of the mainland with restaurants, vineyards, shops and folk who commute to work in Auckland city, so doesn't really count. Getting to Great Barrier is a half day car-ferry ride so makes a 'weekend away' more likely to be the whole school holidays. Whereas Kawau is only an hour's drive from Auckland city centre, then

only a 10 km boat ride away from Sandspit. It does have a regular ferry service and can be as quick as a 20-minute water taxi ride away, but on a busy day the ferry dropping off people and goods may take one to two hours to reach your jetty. So, this is where the fun begins.

Transport: in other words, lugging your gear. South Cove and Schoolhouse Bay do have roads that lead to private property and most folk have an old car or golf buggy or quad bike that does the donkey work, at least part of the way. A wheelbarrow may help with the rest. If you choose a less populated part of the island, or your bach is still 'miles' away, then you'll need to hump and haul. The best bag is a back-pack (each), and if you can find one of those old cavernous ones without a multitude of pockets, it'll be perfect for carting groceries up the hill and firewood and non-compostable rubbish down.



**Supplies:** It helps if you relish challenges, like being enterprising, and ‘making do’ as you’ll have to be when there are no grocery shops or liquor stores or restaurants down the road or at the next anchorage. You may need to be creative in your cooking and cope without fresh cream or whatever ingredient you’ve forgotten and it’s good to have a few tried and true baking recipes... as island life can be very social in a lovely ‘old-fashioned’ way. Muffins for morning tea or cheese straws with drinks with the neighbours.

**Amenities:** Unless you have a bore, you’ll be reliant on the rain and a water tank... you’ll certainly not be phoning up for a tanker if you run dry, so may have to impose the 2-minute shower rule, along with the ‘if it’s brown flush it down if it’s yellow let it mellow” one. And learn to turn off the tap when scrubbing the spuds or brushing your teeth.

**Fitness:** you’ll still need be fit and agile enough to jump on and off boats and in and out of a dingy. A dingy or kayak or two will mean you can still get out fishing or pop down or around to the Mansion House

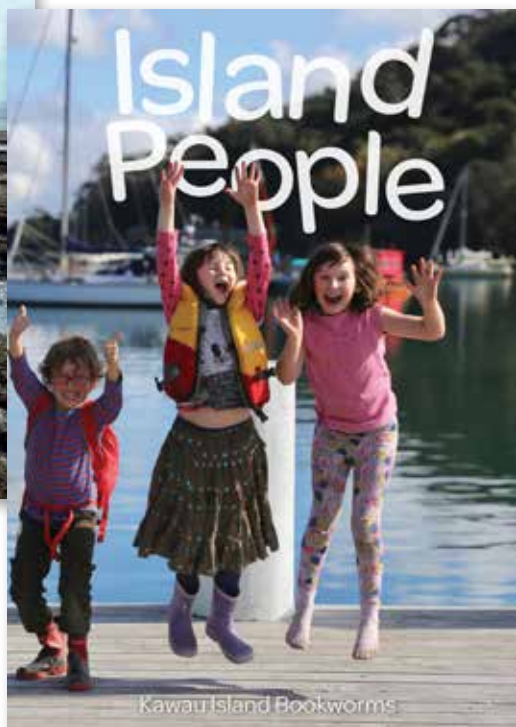
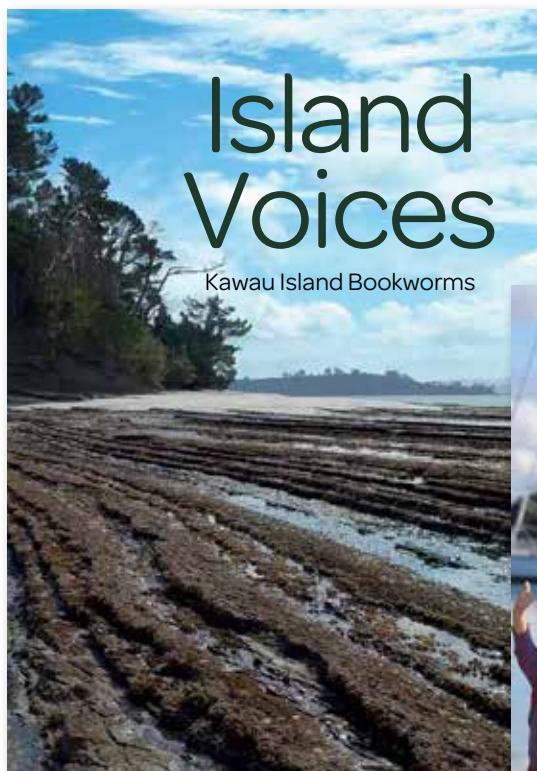
Café or the Kawau Boat Club...weather permitting.

**Tide:** as a yachtie or boatie you’ll be quite attuned to living by the tide and weather. Its no different on an island. You may need to time your arrival so you can get between the beach and the seawall when the tides low enough or when its high enough for the ferry to get to your jetty.

**Caution:** you may come under the spell of island living and then, like us, decide to become a permanent resident. If that is the case don’t repeat our mistake of thinking we’d only live on the island for two years and putting all our mainland household goods into storage! (Most island properties come fully furnished). You definitely will need to be able to cope with isolation, like your own company, lots, and love the freedom of ‘throwing away your watch’. You can still live in the IT electronic age but soon you’ll look forward to a power cut, so you can guilt-free and leisurely, listen to the tuis at dawn, the wekas at dusk, read a book, play scrabble, light the candles, maybe the fire and chill out totally.







If you want to read more about life on an island and especially Kawau, the Bookworms group have now produced four small books of short stories – some fiction, some factual, all anecdotal. “Island Voices”, “Island Flavours”, “Island Passages” at \$20 each and “Island People” at \$25. These are sold at The Kawau Cruises Office at Sandspit and at Mansion House, Kawau or send an email to Fay at [uluwatuster@gmail.com](mailto:uluwatuster@gmail.com) to enquire about a mail order.





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www.kevinjohnsonboatbuilders.co.nz  
..... 09 445 0545

Hobsonville Boat Building Services Ltd  
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Phone .....09 416 9140 Mobile 0274 585016  
www.hobsonvilleboatbuildingservices.co.nz  
Email info@hobsonvilleboatbuildingservices.  
co.nz

Lancer Industries Ltd  
99 Central Park Drive, Henderson, Waitakere  
www.lancer.co.nz ..... 09 837 1206

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www.lloydstevenson-yachts.co.nz

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**www.norsand.co.nz ..... 09 430 8485**

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www.ncbb.co.nz ..... 09 438 9937

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www.optimumboats.co.nz ..... 09 813 9889

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**34 Enterprise Street, Birkenhead, Auckland**  
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..... 09 378 0492

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Beale Boats Ltd Boat Design  
Ray Beale ..... 09 419 2694  
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www.clarityasset.com ..... 09 486 4908

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Electronic Navigation Ltd  
46 Hillside Road, Wairau Valley, Auckland 0627  
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Elliott Boat Design Ltd/Elliott Marine  
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Taylor Marine Brokers Ltd  
PO Box 259 348, Botany, Manukau  
www.taylormarine.net.nz ..... 09 535 5260  
Terminator Boats Ltd  
www.terminatorboats.co.nz..... 09 447 1709

The Marina Brokerage  
Half Moon Bay Marina, 1 Ara-tai, Half Moon  
Bay, Ak  
www.marinabrokerage.co.nz..... 09 534 7196

Thirty Seven South Ltd  
15 Halsey St, Freemans Bay, Auckland  
www.37south.co.nz ..... 09 302 0178

Tony Newmarch Marine Brokers  
37 Chatham Ave, Paremoremo  
www.boatsforsalenz.com ..... 09 413 9465

Voyager Catamarans NZ Limited  
PO Box 101 202, NSMC, Auckland  
www.voyagercats.co.nz ..... 09 478 2220

Warwick Yacht Design Ltd  
2B William Pickering Drive, Albany, Auckland  
www.warwickyachts.com ..... 09 410 9620

Westhaven Marine Brokers Ltd  
Ponsonby Cruising Club Building, Cnr.  
Westhaven Dr and Curran St, Ak  
www.westhavenmarinebrokers.co.nz  
..... 09 376 0102





Woodbine Marine Ltd  
PO Box 58621, Botany, Manukau  
www.woodbinmarine.co.nz ..... 09 265 1623

Yachtfinders Global Ltd  
Cnr Beaumont St & Westhaven Drive,  
Westhaven, Ak  
www.yachtfindersglobal.co.nz ..... 09 377 3328

Yachtshare NZ Ltd  
Sails Restaurant Building, Westhaven Drive,  
Westhaven Marina, Auckland  
www.yachtshare.co.nz ..... 0800 366828

## ELECTRONICS AND ELECTRICAL

AA Marine Tronics Ltd  
4 Blue Gum Avenue, Silverdale ..... 09 427 4143

A&H Auto & Marine Electrical  
Unit A, 143 Target Road, Glenfield . 09 444 5746

A1 Mobile Marine  
Half Moon Bay ..... 0274948576

Advance Trident Limited  
383 New North Road, Kingsland, Auckland  
www.advancetrident.com ..... 09 845 5347

AEP Pacific  
1 Ride Way, Rosedale, Auckland 0632  
website: www.aeppacific.com ..... 09-4145520

Atlantic Audio Ltd ..... 021666061

AutoAnchor (RMSD Ltd)  
46 Lake Road, Northcote, North Shore City  
www.autoanchor.co.nz ..... 09 419 1219

Babcock (NZ) Ltd  
www.babcocknz.co.nz ..... 09 446 1999

BEP Marine Ltd  
55 Paul Matthews Road, Rosedale.. 09 415 7261

Boat Electrics Ltd  
PO Box 96088, Balmoral ..... 09 416 0120

Boat Electronics ..... 09 915 5330

Bright Ideas ELB Ltd  
2A Progressive Way, East Tamaki, Auckland  
www.brightideas.co.nz ..... 09 271 3656

Cervina Marine Industrial Ltd  
Unit 17, 8-14 Madden St, Viaduct Harbour,  
Auckland  
www.cervina.co.nz ..... 09 377 1524

Civic Marine Electrical  
61 The Strand, Parnell, Auckland ..... 09 3032955  
www.civicmarine.co.nz

Cetronics Systems Ltd  
www.cetronics.co.nz ..... 09 237 6108

Connex Ltd  
Unit 151D Marua Road, Mt Wellington  
..... 09 579 0734

Cruzpro Ltd  
13 Burgundy Park Avenue, Henderson, Auckland  
www.cruzpro.com ..... 09 838 3331

Crystal Electronics Ltd  
13 Warehouse World 761-779 Great South  
Road, Penrose ..... 09 579 3726

Custom Marine Electrical Ltd  
..... 09 834 4284 / 0274989006  
temaori@quicksilver.net.nz

David Minors  
Marine Electronics Engineer  
167 Browns Bay Road, Murrays Bay, North  
Shore ..... 09 476 8049 / 021635038  
davidminors@xtra.co.nz

Eastern Marine Electronic Services  
PO Box 55067, Mission Bay..... 095211398

Electrics Afloat Ltd  
19 Halsey Street, Westhaven, Auckland  
www.electricsafloat.co.nz ..... 09 379 7958

Electronic Navigation Ltd  
46 Hillside Road, Wairau Valley, Auckland 0627  
www.enl.co.nz ..... 09 373 5595

Enertec Marine Systems Ltd  
226B Bush Road, Albany, Auckland  
www.enertecmarinesystems.co.nz ... 09 414 4730

Equal Electronics  
104 Roberts Road, Te Atatu ..... 09 835 2128



- Fish City  
Cnr Rosedale Road & Triton Drive, Rosedale  
..... 09 476 4282
- Fusion Electronics Ltd  
PO Box 137 142, Parnell, Auckland  
www.fusionelectronics.com ..... 09 369 2900
- Greenbird Technology (NZ) Ltd  
13/11 Ballin Street, Ellerslie, Auckland  
www.greenbird.com.au ..... 09 550 6020
- Gulf Harbour Electronics Ltd  
PO Box 907, Whangaparaoa, Auckland  
www.ghe.net.nz ..... 09 428 0863
- Gulf Harbour Marine Electrical & Electornics Ltd  
PO Box 429, Whangaparaoa ..... 09 428 3279  
www.marineelectrix.com
- IMED Ltd  
PO Box 47671, Ponsonby, Auckland  
www.imed.co.nz ..... 021 303 399
- Half Moon Bay Electrical  
Unit 3 The Marina Hardstand, Half Moon Bay  
..... 09 537 0502
- Howick Auto Electrical Ltd  
153 Moore Strteet, Howick..... 09 534 6501
- Icom Communications NZ Ltd  
146A Harris Road, East Tamaki ..... 09 274 4062  
www.icom.co.nz
- Independent Power (NZ) Ltd.  
12B Te Kea Place, Rosedale, Auckland 0632,  
New Zealand  
www.indepower.co.nz ..... +64 9 415 6686
- Kiwi Yachting Consultants Ltd  
15 Westmoreland St. West, Grey Lynn, Auckland  
www.kiwiyachting.co.nz ..... 09 360 0300
- Liquid Automation Ltd  
www.liquidautomation.co.nz ..... 09 479 5415
- Lusty and Blundell Ltd  
38 Tawa Drive, Albany, North Shore City  
www.lusty-blundell.co.nz ..... 09 415 8303
- Marine & Automotive Electrical Specialist  
Roger Crabtree ..... 09 376 3344 / 0274977565
- Marine Electrics NZ Ltd  
PO Box 302 748, North Harbour, Auckland  
www.marineelectrics.co.nz ..... 09 442 4190
- Marine Instruments Ltd  
138 Hugo Johnston Drive, Penrose.. 09 580 2240
- MarineXpress Ltd  
2a Arklow Street, Stanmore Bay ..... 09 424 3242
- Martronics Limited  
11c Balmain Road, Birkenhead, Auckland  
www.martronics.co.nz ..... 09 419 5518
- McKay  
38 Water St, Whangarei  
www.mckay.co.nz ..... 09 470 1910
- Navico Asia Pacific  
3-5 Omega St, Albany, Auckland  
www.navico.com ..... 09 925 4500
- Navicom Dynamics Ltd  
6 William Pickering Drive, Albany.... 09 915 5330
- Navstation Ltd  
23b Westhaven Dr, Westhaven, Auckland  
www.navstation.co.nz ..... 09 309 9942
- North Harbour Marine Electrical Ltd  
PO Box 55, Silverdale..... 021985298
- O'Connor Marine & Electrical  
19 Ben Lomond Crescent, Pakuranga  
www.oconnormarine.co.nz  
rhys@oconnormarine.co.nz.....021303073
- Ocean Data Systems Ltd  
Unit 5A 169 Harris Road, East Tamaki  
..... 09 273 5520
- Pacific Aerials Ltd  
11B Ra Ora Drive, East Tamaki ..... 09 253 9450
- PG Electrical Ltd  
Peter Greenwell ..... 09 483 6741 / 0275430831  
Peter.greenwell4@gmail.com
- Pine Harbour Electrical Ltd  
Unit 1 A Pine Harbour Marina, Beachland  
www.phe.co.nz ....09 536 6177 A/H 021791861



Pro Install Marine Ltd  
8 Trugood Drive, East Tamaki ..... 09 272 8297

RMSD Ltd  
46 Lake Road, Northcote..... 09 419 1219

Seatrak Electronics Ltd  
Unit 29, 150-160 Beaumont St, Westhaven,  
Auckland  
www.seatrak.co.nz..... 09 373 2400

Sparkn Electrical Ltd  
Tony Boyd ..... 021772756  
sparkn@xtra.co.nz

Standard Communications (NZ) Ltd  
Unit 2/24 Bishop Dunn Place, East Tamaki  
www.gme.net.au..... 09 274 0955

Tony Murray Inspections  
Registered Electrical Inspector  
PO Box 47414 Ponsonby, Auckland.. 021930344  
www.tonymurrayinspections.co.nz / info@  
tonymurrayinspections.co.nz

VH Marine  
Marine Electronics, PO Box 34507, Birkenhead  
..... 09 418 1071 / 021844804  
www.vhmarine.co.nz / vaughanh@ww.co.nz

Waterfront Electrical  
PO Box 90 983, Victoria St West, Auckland  
..... 09 378 0492

Webster Group  
59 Woodside Avenue, Northcote ... 09 480 2308  
www.webster-group.co.nz  
info@webster-group.co.nz

World Power Ltd  
1 Westhaven Drive, Shop 8, Auckland City  
www.worldpower.co.nz..... 09 368 5356

Wright Technologies Ltd  
10 Ride Way, Albany..... 09 448 5199

## DOCKAGE AND BERTHAGE

Auckland Maritime Foundation  
(t/a Half Moon Bay Marina)  
Half Moon Bay Marina, Bucklands Beach,  
Manukau  
www.hmbmarina.co.nz..... 09 534 3139

Bayswater Marina Management Ltd  
21 Sir Peter Blake Parade, Bayswater, Auckland  
www.bayswater.co.nz..... 09 446 1600

Bellingham Marine  
15 Springs Road, East Tamaki, Manukau  
www.bellingham-marine.co.nz ..... 09 273 5311

Gulf Harbour Marina Ltd  
895 Laurie Southwick Parade, Gulf Harbour,  
Auckland  
www.gulf-harbour.co.nz ..... 09 424 6200

**Half Moon Bay Marina ..... See Pg 140, IFC**  
**Ph 534 3139 .....**  
**Email info@hmbmarina.co.nz**  
**www.hmbmarina.co.nz**

Hauraki Marine Services  
Mooring, Repairs, Inspection, New  
..... 09 423 8040 / 0274926041  
haurakimarineservices@xtra.co.nz

Mahurangi Marinas Ltd  
PO Box 67, Warkworth  
www.mahurangimarinas.co.nz ..... 09 425 8831

Marathon Products  
PO Box 308 068, Manly, Whangaparaoa  
www.boatlift.co.nz ..... 027 444 2368

Marsden Cove Marinas Ltd  
8 Rauiri Drive, One Tree Point, Ruakaka  
www.marsdencove.co.nz ..... 09 432 7740

New Zealand Marina Operators Assn  
www.nzmarinas.com

Orakei Marina/Orakei Management Ltd  
PO Box 42 004, Orakei, Auckland  
www.orakeimarina.co.nz ..... 09 524 8444

**Pier 21 Marine Centre..... See Pg 30**  
**PO Box 105 076, Auckland**  
**www.pier21.co.nz ..... 09 374 4461**

Pine Harbour Marina  
www.pineharbour.co.nz ..... 09 536 4720





Sandspit Marina 1287 Sandspit Road, Matakana River, Sandspit Yacht Club  
131 Berths 12m to 18m

..... 09 425 0099  
Marina Manager Grant Brown ..... 021 511 461

Ship Repair NZ Ltd  
PO Box 3184, Onerahi, Whangarei  
www.shiprepair.co.nz ..... 09 438 0753

Tidal Engineering & Maintenance Services (2004)  
PO Box 79-343 Royal Heights Auckland  
..... 09 833 4587

Viaduct Harbour Limited  
Level 3, 10 Viaduct Harbour Avenue, Auckland  
www.viaduct.co.nz ..... 09 373 4141

Viaduct Harbour Marine Village  
135 Halsey Street, Freemans Bay, Auckland  
www.westhaven.govt.nz ..... 09 355 1837

West Park Marina Ltd  
18 Clearwater Cove, Hobsonville, Auckland  
www.westpark.co.nz ..... 09 416 7447

Westhaven Marina  
137 Westhaven Drive, Auckland  
www.westhaven.co.nz ..... 09 360 5870

## TRAILER MANUFACTURERS

Aakron Inflatable Boats  
4k Titan Pl, Silverdale 0992 AKL  
www.aakronboats.co.nz ..... 09 426 5970

Blackdog Steelworks  
164 Port Road, Whangarei  
www.blackdogsteelworks.co.nz ..... 09 430 2126

Trail Com Limited  
15 Oak Rd, Manukau, Auckland  
www.trojan.co.nz ..... 09 261 0295

## CONSTRUCTION MATERIALS

Adhesive Technologies Ltd  
17 Corban Avenue, Henderson, Waitakere  
www.adhesivetechologies.co.nz .... 09 838 6961

Aurora Glass Fibre NZ Ltd

4/11 Blackburn Road, East Tamaki, Auckland  
www.auroraglass.co.nz ..... 09 273 3540

Cover Systems International Ltd  
Level 1, 96 Stoddard Rd, Mt Roskill, Auckland  
www.coversystems.co.nz ..... 09 630 5331

CRC Industries (NZ) Ltd  
PO Box 58 121, Botany, Manukau  
www.crc.co.nz ..... 09 272 2700

Elastomer Products Ltd  
4 Polaris Place, East Tamaki 2022  
www.elastomer.co.nz ..... 09 274 4052

Fastmount Ltd  
PO Box 522, Kumeu, Auckland  
www.fastmount.com ..... 09 411 8633

FGI - Fibre Glass International  
(Nuplex Industries Ltd)  
6 Winstone Place, Henderson  
www.nuplex.co.nz ..... 09 836 9717

Forman Building Systems  
PO Box 123 49, Penrose, Auckland  
www.forman.co.nz ..... 09 276 4000

GVP (Gibson Veneer & Plywood Ltd)  
70 The Concourse, Henderson, Auckland  
www.gvpnz.com ..... 09 838 3000

Inex Metals Ltd  
www.inexmetals.co.nz ..... 09 270 8342

Jacobsen Tredsafe Ltd  
www.tredsafe.com ..... 09 813 5236

Mulcahy Engineering Ltd  
12 Charann Place, Avondale, Auckland  
www.mulcahyeng.co.nz ..... 09 828 2145

Nicholls & Maher (NZ) Ltd  
15 Ross Reid Place, East Tamaki, Manukau  
www.nicma.co.nz ..... 09 274 5317

NZ Composites Ltd  
www.nzcomposites.com ..... 021 300 151



Onehunga Electroplaters (Bumper Replacements  
(NZ) Ltd)  
94 Princess Street, Onehunga, Auckland  
www.bumper.co.nz ..... 09 634 1071

Plytech International Limited  
23 Business Parade North Highbrook  
Auckland  
..... 09 573 5016

P J Hobbs Industries Ltd  
63 Hunua Rd, Papakura, Auckland  
www.pjhobbs.co.nz ..... 09 295 2200

Pyrotek Products Ltd  
PO Box 58459, Botany, Auckland  
www.pyrotek-inc.com ..... 09 272 2056

Revolution Fibres Ltd  
www.revolutionfibres.co.nz ..... 09 835 4805

SP-High Modulus (Gurit (Asia Pacific) Limited)  
32 Canaveral Drive, Rosedale, Auckland  
www.gurit.com ..... 09 415 6262

Tek Dek  
33 Arapiki Rd, Stoke, Nelson, 7011,  
New Zealand ..... 03 547 3502

Tenob Wholesale Marine Ltd  
8/31 Princes Street, Onehunga, Auckland City  
www.tenob.co.nz ..... 09 634 4091

## ENGINES, TRANSMISSIONS & GENERATORS

Aerotek 2000  
www.aerotek.co.nz ..... 09 445 0420

Allied Lubricants  
PO Box 1359 Whangarei ..... 0800 383 566

Allpower Industries Ltd  
PO Box 97 100, Manukau City, Auckland  
www.hyundaisasall.co.nz ..... 09 269 1160

AP Auto & Marine Service Centre  
14 Vernon Street, Papakura ..... 09 299 8534

AB Marine Services Ltd  
15 Westhaven Drive, Auckland Central  
www.abmarineservices.co.nz ..... 09 303 0018

Allvo Marine Engineering Ltd  
Half Moon Bay, Howick ..... 09 535 9189

Auckland Engineering Supplies  
PO Box 90129, Victoria St West, Auckland  
www.aesnz.com ..... 09 358 0910

Auckland Marine Servicing Ltd  
..... 09 480 8860 / 0272787511

Bay of Islands Marine Centre  
Paihia Road SH11, Opuia 0200  
www.marinecentre.co.nz ..... 09 402 7876

Bayjet Technical Services Ltd  
31 Burne Road, Albany, Auckland... 021 963 822

Bensemman Boating Centre Ltd  
4107 Great North Road, Kelston, Waitakere, Ak  
www.bensemman.co.nz ..... 09 818 5604

Bombardier Recreational Products  
Unit A, 7-11 Arwen Place, East Tamaki  
www.brp.com ..... 09 274 5718

Bretts Marine Ltd  
256 Forrest Hill Road, Forrest Hill, Auckland  
www.brettsmarine.co.nz ..... 09 449 2573

Brevini New Zealand Ltd  
9 Bishop Croke Place, East Tamaki, Auckland  
www.brevini.co.nz ..... 09 250 0050

Bryant Marine Ltd  
Argo Drive, Half Moon Bay Marina, Auckland  
www.mercuryoutboard.co.nz ..... 09 537 0114

Buckland Marine Ltd  
2213 Buckland Road, Pukekohe ..... 09 238 2224

Civic Marine (Civic Automotive Electrical Ltd)  
61 The Strand, Parnell, Auckland  
www.civicmarine.co.nz ..... 09 303 2955

Counties Marine Ltd  
9 Crosbie Road, Pukekohe ..... 09 238 9180

Cummins New Zealand Ltd  
9 Langley Street, Manukau City  
www.cummins.com ..... 09 277 1000





Diesel Clean Ltd  
PO Box 71, Westpark Village, Auckland  
www.dieseldclean.co.nz ..... 0800 482 652

Eastern Marine Engineering Services  
PO Box 82285, Highland Park, Auckland  
www.easternmarine.co.nz ..... 09 536 6252

Family Boats  
247 Ti Rakau Drive, Pakuranga, Manukau  
www.familyboats.co.nz ..... 09 274 0511

Firebird Marine (NZ) Ltd  
50E Ben Lomond Crescent, Pakuranga  
..... 09 576 8194

Four Seasons Marine & Marketing Ltd  
21 Clea View, Gulf Harbour, Auckland  
www.fsmnz.com ..... 09 428 3419

Gough Power Systems  
Kerrs Road, Wiri ..... 09 979 9333

Haines Suzuki Marine (Suzuki Marine NZ Ltd)  
41A Smales Road, East Tamaki, Auckland  
www.suzukimarine.co.nz ..... 09 272 4080

Honda Marine  
PO Box 17240, Greenlane, Auckland  
www.hondamarine.co.nz ..... 09 589 1470

Lees Delta Marine Ltd  
345 Great South Road, Takanini 2112  
www.leesgroup.com ..... 09 299 6019

Magnum Automotive & Jet Boat Services  
343 New North Road, Kingsland ... 09 309 5494  
www.magnumautomotive.co.nz

Marine Diagnostics Ltd  
16 Aranui Road, Mt Wellington, Auckland  
www.marinediagnostics.co.nz ..... 09 570 2944

Marine Exhausts  
13 Gum Road, Henderson Valley ... 09 837 2401  
www.narube-exhausts.com

Marine Direct Ltd  
Unit L, 150 Harris Road, East Tamaki, Manukau  
www.marinedirect.co.nz ..... 09 273 9180

Marine North Ltd  
14 Okara Drive, Whangarei  
www.marinenorth.co.nz ..... 09 438 8927

Marine Proulsion Technologies Ltd  
www.mptmarine.co.nz ..... 0274395207

Marine Workz Group  
24 Westhaven Drive, Westhaven, Auckland  
www.marineworkz.co.nz ..... 09 912 9997

Matakana Marine & Engineering Ltd  
50a Matakana Valley Road, Matakana  
..... 09 422 7822  
www.matakanamarine.co.nz

Mercury Marine  
PO Box 204 153, Highbrook, Manukau  
www.mercurymarine.com ..... 09 274 5285

MGE Marine  
8/1 Westhaven Drive, Westhaven, Auckland  
www.mgmarine.co.nz ..... 09 376 0010

Mikes Marine Centre Ltd  
PO Box 208, Silverdale, Auckland  
www.mikesmarine.co.nz ..... 09 426 8556

Moon Engines  
PO Box 71044, Rosebank, Auckland  
www.moonengines.co.nz ..... 09 828 3524

NewPowr  
Unit 4, 11 Arrenway Drive ..... 09 479 5205

Northland Boating Centre (2010) Ltd  
State Highway 14, Dargaville  
www.northlandboating.co.nz ..... 09 439 7771

Outboard & Stern Drive Service Centre  
Parts, Sails, Repairs  
2 Sir Peter Black Parad, Bayswater Marina  
..... 09 446 311 / 0274960751  
outboardman@slingshot.co.nz

Ovlov Marine Ltd  
PO Box 47427, Ponsonby, Auckland  
www.ovlov.co.nz ..... 09 377 4285

Pacific Driveline Ltd  
55G Druces Road, Wiri, Manukau 2104,  
Auckland  
www.pacificdriveline.co.nz ..... 09 262 3241



Powerflow 2000 Ltd Marine Exhaust Systems  
2/33 Elizabeth Knox Place, Mt Wellington  
..... 09 527 6600

Ray Bryant Marine Limited  
Unly 6A, 50 Argo Drive, Half Moon Bay Marina,  
Ak  
www.mercuryoutboard.co.nz ..... 09 537 0114

Shaw Diesels Ltd  
13A Douglas Alexander Parade, Albany,  
Auckland  
www.shawdiesels.co.nz ..... 09 414 7360

Shore Marine Outboard Services Ltd  
92C Ellice Road, Glenfield ..... 09 443 2667

Simms Diesel & Turbocharger  
77 Leonard Road, Penrose  
..... 09 579 1159 / 021498568 AH 09 527 0129  
www.simmsdiesel.co.nz / admin@simmsdiesel.  
co.nz

Sole Engines NZ Ltd  
www.solediesel.com ..... 09 475 5577

The Engine Room Ltd  
34 Enterprise St, Birkenhead, Auckland  
www.theengineroom.co.nz ..... 09 480 2248

Toyota Tsusho (NZ) Ltd  
PO Box 238, Shortland St., Auckland  
..... 09 379 9902  
TransDiesel Ltd  
Orams Marine Village, 150-160 Beaumont St, Ak  
www.transdiesel.co.nz ..... 09 379 0260

Voith Turbo NZ Pty Ltd  
Level 3, 310/60 Cook St, Auckland  
www.voithturbo.com ..... 09 358 9078

Volpower NZ Ltd  
73C Greenmount Drive, East Tamaki, Auckland  
www.volpower.co.nz ..... 09 274 4305

Wartsila Australia Pty Ltd  
PO Box 32 903, Devonport, Auckland  
www.wartsila.com ..... 09 445 3495

West Auckland Marine Ltd  
Cnr Hepburn & Akatea Road, Glendene  
www.westakmarine@xtra.co.nz ..... 09 818 9230

West Park Marine Engineering  
Clearwater Cove, ..... 09 416 6460

Whiting Power Systems  
156 Beaumont Street, Westhaven, Auckland  
www.whitingpower.com ..... 09 358 2050

Yamaha Motor New Zealand Ltd  
58 Lady Ruby Drive, East Tamaki, Auckland  
www.yamaha-motor.co.nz ..... 09 966 1350

## FISHING AND DIVING

Dive New Zealand Magazine  
47 Tautari St, Orakei, Auckland  
www.divenewzealand.com ..... 09 521 0684

Diveco Ltd  
PO Box 12 547, Penrose, Auckland  
www.diveco.co.nz ..... 09 377 2906

Fish City  
265 Kahikatea Dr Hamilton / Rosedale Rd,  
Albany, Ak  
www.fishcity.co.nz ..... 07 846 6675

Hayisam Limited  
PO Box 90335, Victoria St West, Ak  
..... 0274 548 602

James Nilsson Ltd  
69 Hillside Road, Glenfield, Auckland  
www.jamesnilsson.co.nz ..... 09 444 5219

Kilwell Fishing and Shooting ..... www.kilwell.co.nz

Straight Up Rod Racks  
John Buckley ..... 0274390690 / 09 406 1525  
www.rod racks.co.nz

**The Big Fish Bait & Tackle Co..... See Pg 149**  
**141 Cascades Road Pakuranga**  
**Ph 09 576 2764**  
**Email thebigfish@ihug.co.nz**  
**www.thebigfish.co.nz**  
**Phil Appleyard 0272730500**

Top Catch HQ Ltd  
www.topcatch.co.nz ..... 021 428 768

Winbond Trading Ltd  
3 Kathryn Ave, Hillsborough, Ak .... 09 625 5088



## PUBLICATIONS, CHARTS AND MARKETING

Boat Books Ltd  
22 Westhaven Drive, Westhaven, Auckland  
www.boatbooks.co.nz ..... 09 358 5691

Boating New Zealand (Fairfax Magazines)  
PO Box 12 965, Penrose, Auckland  
www.boatingnz.co.nz ..... 09 634 1800

D&B Publishing/Pacific Power Boat Magazine  
14 Glamis Avenue, Manly, Whangaparaoa  
www.pacificpowerboat.com ..... 09 424 5786

Dive New Zealand Magazine  
47 Tautari St, Orakei, Auckland  
www.divenewzealand.com ..... 09 521 0684

Liquid Scope Ltd  
PO Box 35 312, Browns Bay, Auckland  
www.liquidscope.com ..... 021 927 346

Memory-Map Publishing Ltd  
www.memory-map.co.nz ..... 09 526 0240

New Zealand Boat Show (Premiere Exhibitions Ltd)  
15 Bassant Ave, Penrose, Auckland  
www.boatshow.co.nz ..... 09 525 6999

Ocean Media /CMB Consulting Ltd  
22/10 Cleveland Rd, Parnell, Auckland 1052  
www.oceanmedia.com.au ..... 09 354 4396

Professional Skipper Magazine (VIP Publications)  
4 Prince Regent Drive, Half Moon Bay, Auckland  
www.skipper.co.nz ..... 09 533 4336

Solidtec Solutions Ltd  
www.solidtec.co.nz ..... 09 520 1364

Subzero Images  
PO Box 857, Whangaparaoa  
www.subzeroimages.com..... 09 428 4863

SQ Advertising Ltd  
16 East St, Newtonm Auckland  
www.studioq.co.nz ..... 09 336 1096

Trade A Boat Magazine  
PO Box 7129, Wellesley St, Auckland  
www.tradergroup.co.nz ..... 09 308 2833

Trans Pacific Marine Ltd  
121 Beaumont St, Westhaven, Auckland  
www.transpacific.co.nz ..... 09 303 1459

Urban Voyage Limited  
Level 2, 49A Main Highway, Ellerslie  
www.urbanvoyage.com..... 09 580 0087

## UPHOLSTERY AND COVERS

Auto Upholstery & Canvas  
5 Hokonui Rd, Otahuhu ..... 09 276 7985

Bays Canvas & Trim  
3/10 Tait Pl, Albany ..... 09 414 7748

Boat Cover Company Ltd  
Unit 19, Orams Marine Village, 144 Beaumont St, Westhaven, Ak  
www.thecoverco.co.nz ..... 09 309 4302

Canopy & Squab Shop  
103-113 Westhaven Dr, Westhaven  
www.marinetrimmer.co.nz ..... 09 378 9947

Canvas Man  
493 Whitmore Rd, Matakana ..... 09 422 9166

Coastal Marine Upholstery  
2F Manga Rd, Silverdale ..... 09 426 6817

Cover Systems Ltd  
Level 1, 96 Stoddard Rd, Mt Roskill 09 630 5331

Custom Marine Canvas  
Unit 2/21 Poland Road, Wairau Valley  
..... 09 440 9622

Eastern Cover Centre  
171 Moore St, Howick  
www.easterncovercentre.co.nz ..... 09 535 7524

Eclipse Canvas  
2 London St, Te Atatu ..... 09 948 2367

Franron Marine  
Traditional Sailmaker, Marine Trimmer,  
Upholsterer  
97 Rosier Road, Glen Eden  
..... 09 818 1131 / 0274739303

Frank Warnock  
franron1@xtra.co.nz



Gulf Harbour Covers & Marine Interiors Ltd  
Laurie Southwick Parade, Gulf Harbour  
www.gulpharbourcovers.co.nz ..... 09 424 1219

Kiwi Auto & Marine Upholsterers  
47A Victoria St, Onehunga ..... 09 636 5015

Marine Trimmers & All Awnings  
42B Porana Road, Glenfield ..... 09 444 5308

Marine Upholsterers  
139 Upper Harbour Drive, Greenhithe  
..... 09 413 8183

North Sails NZ Ltd  
117 Pakenham St West, Viaduct Basin  
..... 09 359 5999

Onehunga Auto & Marine Upholstery  
17 Church Street, Onehunga ..... 09 636 4737

South Auckland Upholsterers  
30 Wood Street, Papakura ..... 09 298 5899

Stu's Trim & Sound  
100A Wiri Station Road, Manukau City  
www.ststrim.co.nz ..... 09 262 1461

Total Trim Canvas & Upholstery Ltd  
Unit 5/61 View Road, Glenfield, Auckland  
www.totaltrim.co.nz ..... 09 441 6159

## OTHER SERVICES

**Acacia Care Retirement.....See Pg 2**  
**Wattle Farm Rd, Wattle Downs, Auckland.**  
**Phone 09 268 8522 Fax 09 268 8422**  
**Email [acacia@kirkdale.co.nz](mailto:acacia@kirkdale.co.nz)**  
**[www.acaciacovevillage.co.nz](http://www.acaciacovevillage.co.nz)**

Active Refrigeration ..... 07 929 4440

Actron Fire Services  
101 Beaumont St, Westhaven, Auckland  
..... Ph 09 357 6767

**Alpine Printers .....See Pg 13**  
**96 John Street, Pukekohe, Auckland**  
**2120, PO Box 452, Pukekohe 2340**  
**P: +64 9 238 3960**  
**F: +64 9 238 4220**  
**E: [gary@alpineprinters.co.nz](mailto:gary@alpineprinters.co.nz)**

Amare Super Yacht Services Ltd  
PO Box 99 629, Newmarket, Auckland  
www.amare.co.nz ..... 09 636 3623

ANZ National Bank Ltd  
PO Box 788, Shortland St, Auckland  
www.anz.co.nz

**Auckland Council .....See Pg 14**  
**Private Bag 92303, Auckland ..... 09 301 0101**

**Auckland Harbour Master .....See Pg 59,60**  
**Private Bag 92300 ..... (09) 362 0397**

Baldwins  
HSBC House, Level 16, 1 Queen St, Auckland  
1010  
www.baldwins.com ..... 09 373 3137

Bay of Islands Sailing Ltd  
4 Richardson St, Opua  
www.greatescape.co.nz ..... 09 402 7143

Bloom Hearing Specialists  
Remuera ..... Ph 09 520 0533  
www.bloomhearing.co.nz

Blue World Yachting  
PO Box 8978, Symonds St, Auckland  
..... 09 302 2774

Boat Boys Limited  
34 Eavin St, Ellerslie, Auckland  
www.boatboys.co.nz ..... 09 571 2122

**Boat Haulage Limited See.....See Pg 114**  
**300 Beach Haven Road, Beach Haven,**  
**Auckland**  
**[www.boathaulage.co.nz](http://www.boathaulage.co.nz) ..... 09 483 8111**

Boatsmart HQ  
Level 1, 1 Anzac Avenue, Auckland  
..... +64 9 216 5161  
www.boatsmarthq.com ..... 021 048 8766  
..... [scott@boatsmarthq.com](mailto:scott@boatsmarthq.com)

Brausch Trucking  
www.brauschtrucking.co.nz

British Consulate-General  
Level 17, 151 Queen Street, Auckland  
www.ukinnewzealand.fco.gov.uk .... 09 303 5018





**Cobble Key Trophy & Gifts..... See Pg 51**  
**24 John Street, Whangarei**  
**Ph 09 438 3184**  
**Fax 09 438 5697**

Cover Systems International Ltd  
 Level 1, 96 Stoddard Rd, Mt Roskill, Auckland  
 www.coversystems.co.nz ..... 09 630 5331

**Collinsons & Co..... See pg 3**  
**Level 2, 75 Queen Street, Auckland 1010**  
**P.O. Box 5068, Wellesley Street, Auckland 1141**  
**09 300 5237 or 09 358 3636**  
**www.hugh.going@collinsonco.com**  
**www.john.collinson@collinsonco.com**

Dils Funeral Services  
 185 Schnapper Rock Road, Albany, Auckland  
 ..... 09 415 8720

Dunsford Marine Limited  
 3 Scotland Street, Freemans Bay, Auckland 1011  
 www.dunsfordmarine.com ..... 09 307 9122

**Engraving Systems ..... See Pgs 10, 120**  
**28 Reyburn St, Whangarei**  
**09 438 1744/Fax 09 945 4924**  
**www.engravingsystems.co.nz**  
**Email engrave@engravingsystems.co.nz**

Events Clothing Company Ltd  
 16 Taylors Road, Morningside, Auckland  
 www.eventsclothing.co.nz ..... 09 303 0013

Everedge IP Limited  
 2 Fred Thomas Drive, Takapuna, Auckland  
 www.everedgeip.com ..... 09 489 2331

Forex Ltd  
 Level 11, Affco House, 12-26 Swanson St.,  
 Auckland  
 www.forexltltd.co.nz ..... 09 309 5710

Fridgetech Marine Limited  
 34 Tarndale Grove, Rosedale, Albany, Auckland  
 www.fridgetech.co.nz ..... 09 415 1456

Half Moon Bay Electrical  
 Unit 3, The Marina Hardstand, Half Moon Bay  
 Marina, Auckland  
 www.hmbe.co.nz ..... 09 537 0502

Hopper Developments  
 Ph: 09 432 8379  
 www.marsdencove.co.nz

International Marine Certification Institute  
 Rue Abbé Cuyper 3, B-1040 Brussels, Belgium  
 www.imci.org ..... 32-2-741-6836  
 Island Cruising Association (Island Cruising  
 Regattas Ltd)  
 PO Box 534, Paihia  
 www.islandcruising.co.nz ..... 027 242 1088

Liquid Scope Ltd  
 PO Box 35 312, Browns Bay, Auckland  
 www.liquidscope.com ..... 021 927 346

Liquorland Howick  
 Corner Elliot & Moore Streets, Howick  
 Ph 09 537 1773

Lowndes Jordan  
 Level 22, Anz centre, 23-27 Albert St., Auckland  
 www.lojo.co.nz ..... 09 309 2500

Lucas & Mabin  
 109 Great South Rd, Greenlane, Ak 09 520 2178

Marine Industrial Design Ltd  
 40 Triton Drive, Rosedale, Auckland  
 www.marinedesign.co.nz ..... 09 965 1170

Marine Management Ltd  
 42 Apollo Drive, Mairangi Bay, Auckland  
 www.mml.org.nz ..... 09 889 3656

Marine Risk Evaluation Ltd  
 168 Kittiwake Drive, Albany, Auckland  
 ..... 09 441 2000

Marinejobs.co.nz Ltd  
 2 / 15 Newell Street, Point Chevalier, Auckland  
 www.marinejobs.co.nz ..... 09 815 2393

**Marsden Cove ..... See pg 50**  
**48 Rauiri Dr, Ruakaka ..... See pg 50**  
**Ph 09 432 7740 Fax 09 432 7743**  
**Email info@marsdencovemarina.co.nz**

Mc Zoom Limited  
 PO Box 24 133, Royal Oak, Auckland  
 www.mczoom.co.nz ..... 0275 622 322



Medaire/International SOS NZ Ltd  
Level 3, 32-34 Mahuhu Cres, Auckland  
www.medaire.com ..... 09 359 1640

New Zealand Traditional Boatbuilding School  
14 Buckley Avenue, Hobsonville, Auckland  
www.atbs.org.nz ..... 09 416 1023

North Tec FutureTrades  
19 Dyer St, Whangarei  
www.northtec.ac.nz ..... 09 470 3555

NZ Powerboat Federation Inc  
PO Box 54 061, Bucklands Beach, Auckland  
www.powerboatracing.co.nz ..... 021 335 198

Orange Scaffolding  
..... 09 486 3845 or 021 82 62 42  
..... Email gavin@orangescaffold.co.nz  
..... www.orangescaffold.co.nz

**Oceanbridge Shipping Ltd ..... See Pg 4**  
**25 Anzac Street, Takapuna, Auckland**  
**www.oceanbridge.co.nz ..... 09 489 6070**

**Pacific Rim Marine Surveys .... See Pgs 4 and 100**  
**P O Box 8020, Cherrywood, Tauranga 3145**  
**.....021 1390 459**

**After Hours phone: 07 576 0032**  
**Email: info@pacificrimmarine.com**  
**www.pacificrimsurveys.com**

Pita Paraone MP  
Whangarei Office:  
83 Bank Street, PO Box 235, Whangarei 0140  
Ph: 09 438 4037  
Email esme.connell@parliamnet.govt

Portrush Holdings Ltd  
10 Hobbs Road, Tindalls Bay, Whangaparaoa  
www.portrush.co.nz ..... 09 428 2920

Powerboat Training NZ/Atlantic 21 Ltd  
20 Glen Marine Parade, Glendene, Auckland  
www.powerboat-training.co.nz ..... 09 837 0277

RSM Prince  
Unit C, 17 Corinthian Drive, Albany, Auckland  
www.rsmprince.co.nz ..... 09 414 6262

Sea+City Projects Ltd  
Pier 21, 11 Westhaven Drive, Auckland  
www.seacity.co.nz ..... 09 336 8820

Sea Fury Charters  
Half Moon Bay Marina, Auckland...  
www.seafurycharters.co.nz.....027 270 6232

The Lakes 2012 Ltd  
Caslani Lane, Tauranga  
www.thelakestauranga.co.nz..... 0800THE LAKES

The Moorings (New Zealand Boat Charters Ltd)  
127 Beaumont Street, Freemans Bay, Auckland  
www.southpacificsailing.com ..... 09 378 7900

Stryde Projects Ltd  
3 Gordon Road, Morningside, Auckland  
.....09 846 1616  
.....Fax 09 846 1696  
Email: info@stryde.co.nz  
www.stryde.co.nz/

Toyota Finance New Zealand Ltd  
PO Box 17065, Greenlane, Auckland  
www.toyota.co.nz ..... 09 571 4318

Trans Pacific Marine Ltd  
121 Beaumont St, Westhaven, Auckland  
www.transpacific.co.nz ..... 09 303 1459

Tru Design Plastics Ltd  
243 Tirakau Drive, East Tamaki, Auckland  
www.trudesignplastics.com ..... 09 274 5792

UNITEC Institute of Technology  
Private Bag 92025, Victoria St West, Auckland  
www.unitec.ac.nz ..... 09-815-4321x 8703

Vessel Management Services Ltd  
157 Westhaven Drive, Westhaven Marina,  
Auckland www.vms.co.nz ..... 09 360 9867

Vision Screenprint  
Ph: 09 428 1184 Mobile: 021 130 9113  
visionscreenprint@xtra.co.nz  
www.visionscreenprint.co.nz

Volpower NZ Ltd  
73C Greenmount Drive, East Tamaki, Auckland  
www.volpower.co.nz ..... 09 274 4305

Westhaven Marina  
137 Westhaven Drive, Auckland  
www.westhaven.co.nz ..... 09 360 5870





Wilson Harle  
64 Fort Street, Auckland  
www.wilsonharle.com ..... 09 915 5705

Vector Limited  
101 Carlton Gore Road, Newmarket  
Auckland 1023 ..... 09 978 7788

Yachtshare NZ Ltd  
Sails Restaurant Building, Westhaven Drive,  
Westhaven Marina, Ak  
www.yachtshare.co.nz ..... 0800 366 828

## PAINTS AND COATINGS

Akzo Nobel Coatings Ltd/International Yacht  
Paints  
686 Rosebank Road Avondale, Auckland 1026  
www.internationalpaint.com ..... 09 828 3009

Jotun  
www.polymer.co.nz ..... 0800 999 001

Link up Paints  
10 Barberry Street, Judea, Tauranga  
..... 07 571 8921  
Mobile – 029 200 2817 (Darryl Watson – marine  
sales)  
Email – enquires@linkupbop.co.nz  
or darryl@linkupbop.co.nz  
www.linkupbop.co.nz

MEC Marine Ltd  
PO Box 62 593, Greenlane, Auckland  
www.mecmarine.co.nz ..... 09 525 1114

Polymer Group Ltd / Jotun NZ  
62 Stonedon Drive, East Tamaki, Auckland  
www.polymer.co.nz ..... 0800 999 001

PPG Industries NZ Ltd  
5 Monahen Rd, Otahuhu, Auckland  
www.ppgnz.co.nz ..... 09 573 1620

Wairau Paint Centre Ltd  
www.wairaupaints.co.nz ..... 09 443 3430

## CHANDLERY AND EQUIPMENT

121 Marine Centre Ltd  
3/20 Constellation Drive, Mairangi Bay,  
Auckland  
www.121marine.co.nz ..... 09 444 3442

Absolute Marine  
Unit B, 138 Harris Road, East Tamaki, Auckland  
www.absolutemarine.co.nz ..... 09 273 9273

Alphatron Pacific Ltd  
10-36 William Pickering Drive, Albany, Auckland  
www.alphatrononline.com ..... 09 414 5520

Boat Bits Ltd  
51 Barrys Point Road, Takapuna, North Shore  
City  
www.boatbits.co.nz ..... 09 489 6475

Bob Littler Agencies (NZ) Ltd  
Unit T2, 76 Porana Rd, Glenfield, Auckland  
www.bla.co.nz ..... 09 442 1717

Bright Ideas ELB Ltd  
2A Progressive Way, East Tamaki, Auckland  
www.brightideas.co.nz ..... 09 271 3656

Burnsco Marine  
70 Gaunt Street, Auckland Central, Auckland  
www.burnscomarine.com ..... 09 535 4558

Cater Marine Opua 2004 Ltd  
Unit 16, Baffin Street, Opua  
www.catermarine.co.nz ..... 09 402 8292

Chatfield Marine (Chatfield Engineering Ltd)  
9 Porana Rd, Glenfield, Auckland  
www.chatfieldmarine.co.nz ..... 09 444 9031

Earthwise Group Ltd  
11 Farmhouse Lane, St Johns, Auckland 1072  
www.seawise.co.nz ..... 09 578 5060

Fineline Marine Ltd  
www.finelinemarine.co.nz ..... 09 820 2111

Garhauer Marine New Zealand Ltd  
PO Box 317, Paihia  
www.garhauermarinehardware.co.nz  
..... 09 402 6231

Harken New Zealand  
30-36 Fanshawe St, Auckland  
www.fostersshipchandlery.co.nz ..... 09 303 3744

Lighthouse Marine Equipment Ltd  
8C Tawa Drive, Albany 0632  
www.lhmarine.co.nz ..... 09 448 2761



Marine Xpress Ltd  
2a Arklow Lane, Whangaparaoa  
www.marineexpress.co.nz ..... 09 424 3242

New Zealand Rigging Ltd  
31 Woodside Avenue, Northcote, Auckland  
www.nzrigging.com ..... 09 480 8090

Rubbermark Industries Ltd  
21 Norman Spencer Drive, Puhinui, Auckland  
www.rubbermark.co.nz ..... 09 278 1090

Sailors Corner Ltd  
2 Westhaven Drive, Westhaven, Auckland  
www.sailors.co.nz ..... 09 309 6153

Smart Marine  
123 Beaumont Street, Westhaven, Auckland  
www.smartmarine.co.nz ..... 0800 80 50 40

So-Pac Marine Ltd  
8-10 Volkner Place, Albany, Auckland  
www.sopac.co.nz ..... 09 448 5900

Teleflex (NZ) Ltd  
14-761 Great South Road, Penrose, Auckland  
www.teleflexnz.co.nz ..... 09 580 0960

Ultra Leisure Products Ltd  
www.ulp.co.nz ..... 09 309.9775

White Star Products Ltd  
www.whitestarproducts.co.nz ..... 09 620 7109

## INSURANCE

Club Marine New Zealand  
Level 1, 152 Fanshawe St, Auckland  
www.clubmarine.co.nz ..... 0800 882 582

Crombie Lockwood (NZ) Ltd  
Unit 3B, 320 Ti Rakua Drive, Botany, Auckland  
www.crombielockwood.co.nz..... 09 272 5216  
027 454 5476

I C Frith  
PO Box 8896, Symonds St, Auckland  
www.icfrith.co.nz ..... 0800 848 777

Insurance Brokers (International) Ltd  
Unit 7, 34B Triton Drive, Albany, Auckland  
www.ibi.co.nz ..... 09 477 0277

Mariner Marine Insurance  
Division of Vero Insurance NZ Ltd  
132 Halsey St., Viaduct Harbour, Auckland  
www.mariner.co.nz ..... 09 360 1010

Mike Henry Insurance Brokers Ltd  
Level 1, 1 Nelson Street, Central City, Auckland  
www.mihb.co.nz ..... 09 374 0610

PIC Marine Insurance  
3/15 Accent Drive, East Tamaki, Manukau  
www.pic.co.nz ..... 09 274 5751  
The Marina Shop Ltd  
www.marine-insurance.co.nz ..... 09 402 6093

## MARITIME TRAINING

Mahurangi Technical Institute  
www.mti.net.nz

Sailing Away School of Sailing  
www.sailingaway.co.nz

Elements Watersports  
www.elementswatersports.co.nz

46 South - Marine and Adventure Training  
www.46south.co.nz

Penny Whiting School of Sailing  
www.pennywhiting.com

New Zealand Maritime School  
www.nzmaritime.com

## BOAT CHARTER & HIRE

Abalone Cruises  
Westhaven Marina  
www.abalonecruises.co.nz ..... 09 579 9574  
Abalonebareboat Agency  
32 Vinograd Dr, Te Atatu Peninsular 09 8343350

Bareboat Experience Ltd  
www.daytripper.co.nz ..... 0508 735 337

Belaire Ferries  
www.belaire.co.nz ..... 09 416 6344

Breum Charters  
www.breum.co.nz ..... 0274496822



- CharterLink Ltd  
PO Box 32501, Devonport ..... 09 445 7114
- Chieftain Cruises Ltd  
58B Kurahaupo Street, Orakei ..... 09 528 0052
- Cool Runnings ..... 09 232 1578
- Corporate Cats  
8A Rothesday Bay Rd, Rothesday Bay  
..... 09 478 6189
- Decked Out Yachting Ltd ..... 09 482 2078  
Elite Boat Charters  
PO Box 51246, Pakuranga  
www.elitecharters.co.nz ..... 021762880
- Escapade Charters Ltd  
42C Tawa Drive, Albany ..... 09 415 2320
- Explore NZ  
PO Box 106267 ..... 09 359 5987
- Fun Cruises  
Z Pier, Berth 11, Westhaven ..... 09 482 3973
- Generation Yacht Charters  
68 Korora Rd, Oneroa ..... 09 372 8728
- Gulf Harbour Fishing & Charters/Double Rum  
Gulf Harbour Marina, Gulf Harbour  
..... 09 479 5195
- Gulf Harbour Launch Charters ..... 09 424 0957
- Gulf Raider Charter Fishing  
bookings@gulfraider.co.nz ..... 09 427 6194
- Gulfsail Charters..... 09 536 5106
- Gulfwind Ltd Sailing Academy & Charters  
PO Box 87318, Meadowbank, Auckland  
..... 09 521 1564 / 0274802462  
Mike Lanigan  
www.gulfwind.co.nz / sail@gulfwind.co.nz
- Hauraki Gulf Charters Ltd..... 09 272 0871
- Hauraki Gulf Yacht Charters  
14C Manga Road, Silverdale ..... 09 426 7400
- Just Cruising Charters Ltd  
Unit 20 18 Airbourne Rd, Albany ... 09 376 1264
- Kaipara Harbour Tours  
www.kaiparacruises.co.nz ..... 09 579 9574
- Kay Zed Cruises Auckland  
PO Box 142, Westpark Village ..... 09 416 1221
- Latitude Yachting Ltd  
Cnr Beaumont St & Westhaven Dr, Westhaven  
..... 09 377 3328
- Latitude Yachting Ltd  
Devonport ..... 09 445 6772
- Leigh Fishing Charters  
PO Box 126, Leigh ..... 09 422 6833
- Manu Moana Ltd  
PO Box 106264, Auckland Central .. 09 3599445
- NZ Classic Yachts & Launches ..... 09 446 6081
- Ocean Blue Charters  
Westhaven ..... 09 416 3303 Mob 0272879004  
www.oceanbluecharters.co.nz
- Ocean Eagle Charters ..... 08008423828
- Radar Blue..... 09 257 1590
- Rakoa Charters  
144 Church Street, Onehunga ..... 09 636 6007
- Reel Passion  
PO Box 901, Whangaparaoa ..... 09 424 3348
- Riverhead Ferry Chartered Cruises  
24 Cooper Street, Arch Hill, Grey Lynn  
..... 09 376 0819
- RnR Charters Ltd (Mangawhai)  
Alamar Cres, Mangawhai ..... 09 423 7642
- Sail Connections Ltd  
Unit 26 8 Madden St, Auckland Central  
..... 0 935 80556
- Sea Tours  
www.seatours.co.nz ..... 0800692427
- Silver Bear Luxury Charters-Baxter Pym  
114 Harbour Village Drive, Whangaparaoa  
..... 09 424 2663





Skipjack Charters  
Ti Point Rd, RD 5 Warkworth ..... 09 422 6184

Soren Larsen ..... 09 411 8755

Splash Out Charters ..... 0800 000747

Spontaneous Yacht Charters ..... 09 8275203

Sports Hire Rentals Ltd  
1179 Great North Rd, Pt Chevalier . 09 845 5254

Takapu Cruises ..... 09 948 1566

The Moorings Yacht Charters  
127 Beaumont St, Westhaven ..... 09 378 7900

The Red Boats  
2 Pier, Westhaven ..... 09 834 7337

Thor Charters 50Ft Boat  
c/- Leigh General Stores, RD 5, Warkworth  
..... 09 422 6975

Tom Fleming  
..... 0061408214734 or  
Email: tfleming.10@me.com

William C Daldy Steam Tug  
PO Box 32033, Devonport  
www.daldy.com ..... 09 309 7526

Xdreme Charters  
..... 09 415 6657 Mob 027778775

Yachtshare  
PO Box 105344, Auckland Mail Centre  
..... 09 521 5916

## **AUCKLAND YACHT & BOATING ASSOCIATION AFFILIATED CLUBS**

Auckland Sailing Club  
Tamaki Drive, Okahu Bay ..... 09 524 0650  
www.ascskiff.org.nz

Blue Gavel New Zealand  
28 Elderberry Road, Burswood, Auckland

Browns Bay Boating Club  
Beachfront Lane, Browns Bay  
www.bbbsc.co.nz

Bucklands Beach Yacht Club  
Ara Tai, Half Moon Bay ..... 09 534 3046  
www.bbyc.org.nz / bucksbyc@clear.net.nz

Clarks Beach Yacht Club  
End of Torkar Road, Clarks Beach  
www.clarksbeachyachtclub.org.nz / reception@  
clarksbeachyachtclub.org.nz

Classic Yacht Association  
C/- Royal NZ Yacht Squadron, Westhaven Drive,  
Auckland  
www.classicyacht.org.nz/admin@classicyacht.  
org.nz  
Clearwater Cove Yacht Club  
15 Clearwater Cove, Westpark Marina  
PO Box 141, Westpark Village Waitakere, 0661  
johntwodogs@woosh.co.nz

Devonport Yacht Club  
25 King Edward Parade, Devonport  
PO Box 32036, Devonport ..... 09 445 0048  
www.dyc.org.nz / commodore@dyc.org.nz

Glendowie Boating Club  
37 Glendowie Rd, Glendowie ..... 09 575 7536  
PO Box 25093, St Heliers, Auckland 1740  
admin@gbcyachting.org.nz / www.gbcyachting.  
org.nz

Gulf Harbour Yacht Club  
1299 Laurie Southwick Parade, Gulf Harbour,  
Whangaparaoa ..... 09 424 2118  
admin@ghyc.co.nz / www.ghyc.co.nz  
Herald Island Boat Club  
41 Ferry Parade, Herald Island  
Zmv5973@gmail.com / www.hibc.co.nz  
Hobsonville Yacht Club  
PO Box 81046, Whenuapai  
steve-o@clear.net.nz

Howick Sailing Club  
Granger Rd, Howick Beach ..... 09 534 6687  
PO Box 38099, Howick, Manukau 2145  
www.howicksailingclub.co.nz

Kawau Boating Club  
Bon Accord Harbour, Kawau Island  
info@kawaubootingclub.nz ..... 09 422 8845



Kohimarama Yacht Club  
80 Tamaki Dr, Kohimarama  
PO Box 25007, St Heliers ..... 09 528 4365  
info@kyc.org.nz

Manly Sailing Club  
65 Lawrence Street, Manly Whangaparaoa 0930  
PO Box 430, Whangaparaoa 0943  
www.manlysailingclub.org.nz / manlysailing@  
xtra.co.nz

Manukau Yacht & Motor Boat Club  
Kiwi Esplanade, Mangere Bridge  
PO Box 59034, Mangere Bridge  
www.mymbc.org.nz / pilkys1@vodafone.co.nz

Maraetai Sailing Club  
Maraetai Park, Maraetai Beach ..... 09 536 6649  
PO Box 281006, Maraetai, Manukau 2148  
admin@maraetaiboatclub.org.nz / www.  
maraetaisailingclub.org.nz

Milford Cruising Club  
Craig Rd, Milford ..... 09 489 6837  
PO Box 31027, Milford  
milfordcruising@xtra.co.nz / www.  
milfordcruising.co.nz

Murrays Bay Sailing Club  
513 Beach Rd, Murrays Bay ..... 09 479 4180  
PO Box 65076, Mairangi Bay, North Shore  
secretary@murraysbay.org  
www.murraysbay.org

New Zealand Multihull Yacht Club  
c/- R.N.Z.Y.S Westhaven  
PO Box 3337, Auckland Mail Centre  
anthonymcbridge@gmail.com  
www.nzmultihull.org.nz  
Northcote & Birkenhead Yacht Club  
Birkenhead Wharf, Hinemoa Street, Birkenhead  
PO Box 34003, Birkenhead, Auckland

Okura River Boating Club (Inc)  
c/- 28 Gails Dr, Okura, RD 2, Albany

Outboard Boating Club  
7 Tamaki Dr, Orakei, Auckland ..... 09 522 0774  
admin@obc.co.nz or membership@obc.co.nz  
www.obc.co.nz

Panmure Yacht & Boating Club (Inc)  
104 Kings Rd, Panmure ..... 09 570 2318  
PO Box 14067, Panmure  
info@pybc.org.nz / www.pybc.org.nz

Pine Harbour Cruising Club Inc  
Pine Harbour Marina  
PO Box 55, Whitford  
picketywitch@slingshot.co.nz

Pupuke Boating Club  
Sylvan Park, Milford  
15 Lynngate Place, Hillcrest  
www.pupuke.org.net  
david@pdqprint.co.nz

Point Chevalier Sailing Club  
Raymond St Res, Raymond St, Pt Chevalier  
PO Box 44094, Pt Chevalier, Auckland 1246  
www.sailptchev.org.nz  
pcsccommodore@gmail.com  
pcsc.secretary@gmail.com  
pcscsailing@gmail.com

Royal Akarana Yacht Club  
The Landing, Okahu Bay, Orakei .... 09 524 9945  
PO Box 42004, Orakei, Auckland 1745

Richmond Yacht Club  
Westhaven Marina ..... 09 376 4332  
PO Box 46324, Herne Bay, Auckland 1147  
info@richmondyc.org.nz  
www.richmondyc.org.nz

Ponsonby Cruising Club  
Westhaven Marina ..... 09 376 0245  
PO Box 47010, Ponsonby  
info@pcc.org.nz

Royal New Zealand Navy Sailing Club  
HMNZS Philomel, Queens Parade . 09 445 5999  
PO Box 32012, Devonport  
Hamish.ivey@nzdf.mil.nz  
www.navy.mil.nz/sport-and-recreation

Royal New Zealand Yacht Squadron  
101 Curran Street, Westhaven, Auckland  
..... 09 360 6800  
PO Box 46182, Herne Bay, Auckland  
admin@rnzys.org.nz  
www.nzys.org.nz



Sandspit Yacht Club  
1287 Sandspit Road, Sandspit ..... 09 425 9008  
www.sandspit.org.nz

Shelly Park Cruising Club  
Sandspit Road, Howick  
PO Box 38290, Howick

Short Handed Sailing Association  
PO Box 40550, Glenfield, Auckland  
thorpecameron@xtra.co.nz  
www.ssanx.co.nz

Taikata Sailing Club  
15 Chapman Rd, Te Atatu Peninsula  
PO Box 45113, Te Atatu Peninsula . 09 416 1496  
bjeffries@vodafone.co.nz

Takapuna Boating Club Inc  
39 The Strand, Takapuna Beach .... 09 489 6941  
And 4 Sir Peter Blake Pde, Bayswater  
PO Box 33062, Takapuna 0740  
info@takapunaboating.org.nz  
www.takapunaboating.org.nz

Tamaki Yacht Club  
30 Tamaki Drive ..... 09 528 5662  
PO Box 55123, Eastridge  
tamakiyachtclub@xtra.co.nz  
www.tyc.org.nz

Torbay Sailing Club  
Aicken Reserve, Beach Rd, Waiake . 09 473 9955  
PO Box 35170, Browns Bay  
www.torbaysailingclub.org.nz

Waiheke Boating Club  
Causeway Road, Ostend  
www.waihekeboatclub.co.nz / panui413@gmail.  
com  
Waiuku Yacht Club  
Rangiawha Road, Sandspit, Waiuku  
www.wyc.org.nz / info@wyc.org.nz

Wakaterere Boating Club  
Old Lake Road, Narrowneck Beach, Devonport  
www.wakaterere.org.nz

Weiti Boating Club  
Fairhaven Walk, Whangaparaoa  
www.weiiti.co.nz / weiiti@xtra.co.nz

Westhaven Yacht Club  
PO Box 46268, Herne Bay, Auckland  
peterlynn@slingshot.co.nz

Yachting New Zealand  
85 Westhaven Drive, Westhaven Marina  
..... 09 361 1471  
www.yachtingnz.org.nz / mail@yachtingnz.org.  
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Accurate Sheetmetals Ltd  
402 Rosebank Road, Rosebank ..... 09 820 4500

Advanced Marine Spraypainting  
Shed 1, 300 Beachhaven Road, Beachhaven  
..... 0274102813  
Alternative Boat Windows Ltd..... 021536366

Antifoulman ..... 0800268436

Boat Doctor Ltd  
68 Royal View Road, Te Atatu ..... 09 834 4115

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**136 Beaumont Street, Auckland**  
**..... 09 307 2325**

BoatBoys Ltd  
PO Box 11377, Ellerslie ..... 09 940 1711  
Boatbuilding & Shipwright Services Ltd  
136 Beaumont Street, Auckland Central  
..... 09 307 2325

Boatspray Ltd  
C1/50 Argo Drive, Half Moon Bay Marina  
..... 09 535 4802

Cole Marine Services Ltd  
Albany ..... 09 415 4116

Craftmaster Marine 1999 Ltd  
161 Old Railway Road, Kumeu ..... 09 412 2251  
propellers@ihug.co.nz..... 0275426104

Damian Johnston Boat Builders ..... 09 413 5380

East Coast Boats  
24 Infidel Place, Torbay ..... 09 473 8030

Fyran Boats  
11 Reg Savory Place, East Tamaki ... 09 273 1700



Geltec  
Barry Cawson .....021661861  
www.geltec.co.nz / barry@geltec.co.nz

**Gloss Boats Marine Spraying Specialists**  
.....See Pg 30  
**www.glossboats.co.nz ..... 0800456772**

Half Moon Bay Marina Boatbuilders Ltd  
..... 09 535 4746

Hill Boat Valet Services Ltd  
Rod Hill ..... 0272212221  
boatbaletservice@hotmail.com

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Westhaven ..... 09 300 7499  
Innovative Marine Solutions Ltd  
Rob Boyd .....021765846  
rob@innovativemarine.co.nz

Kevin Johnson Boat Builders Ltd  
7 Wynyard Street, Devonport ..... 09 445 0545  
kjboat@xtra.co.nz

Marina Specialists Ltd  
Bob Behague .....0212894030  
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Marine Solutions Gulf Harbour  
Gulf Harbour Marina, Whangaparaoa  
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Sir Peter Blake Parade, Bayswater ... 09 445 3323  
Nautech Marine Ltd  
42 Edward Jonkers Drive, RD3, Albany  
09 412 8329/021916795  
www.nautechmarine.co.nz

Nautical Solutions  
Beaumont Street, Auckland City ..... 09 379 3386

New Zealand Wood Coatings Ltd  
1/6 Hill Street, Onehunga .....0272859970

**Norsand Boatyard .....See Pg 12**  
**10 Fraser Street, Whangarei**  
**www.norsand.co.nz ..... 09 430 8485**

Oceania Marine Ltd  
4 Fraser Street, Whangarei ..... 09 430 3148

Orams Marine Services Ltd  
144 Beaumont Street, Westhaven .. 09 303 9999  
www.oramsmarineservices.co.nz

Pauling Engineering Ltd  
3/348 Rosebank Road, Avondale ... 09 828 2812  
Roger .....0274719466  
www.paulingengineering.co.nz

Pier 21 Marine Centre  
15 Westhaven Drive, Westhaven ..... 09 374 4461  
www.pier21.co.nz / info@pier21.co.nz

Riverside Haulage Boat Yard  
121 Dawson Road, Snells Beach .... 09 425 5229

Rm Mechanical Ltd – Jet Ski Repairs  
48 Garton Drive, Massey ..... 09 833 3069

Robertson Boats Ltd  
Alnwick Street, Warkworth ..... 09 425 7001  
www.robertsonboats.nz.com

Scott Marine Services Ltd ..... 09 535 7497

Solas Propellers (NZ) .....0800776774

Steve Pennington Boat Builders Ltd  
193B Archers Road, Glenfield ..... 09 441 2000

Superior Boats Ltd  
27 Holmes Road, Manurewa ..... 09 267 8498  
www.superiorshuttles.co.nz  
Touch of Gloss  
Westpark Marina ..... 09 417 0333  
www.touchofgloss.co.nz

Transport & Marine Ltd  
www.transportandmarine.co.nz / jason Oxley  
.....021645185  
Jason@transportandmarine.co.nz

Waterworx Marine  
14D Flexman Place, Silverdale ..... 09 426 3066

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A-Z Marine Services Ltd  
PO Box 580, Kumeu, Auckland  
.....09 411 8660 / 021466479  
a-zmarineservices@ihug.co.nz



Above & Below Marine  
 Bryce Wood ..... 0274446583  
 bryce.wood62@gmail.com

Auckland Marine Boat Valet  
 Steve Kellie ..... 09 416 1852 / 0211719222  
 Steve@boatgrooming.co.nz

B.V. Services  
 Mark ..... 021741331

Executive Boat Valet Ltd  
 PO Box 82298, Highland Park  
 ..... 09 537 0276 Mob 021490119

Floating Dock Services  
 PO Box 36-433, Northcote, Auckland  
 ..... 09 379 0934  
 ..... Mobile: 027 497 2039

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 boatbaletservice@hotmail.com

Lloyd Stevenson Boatbuilders Ltd  
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Marine Technical Services Ltd  
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 marinetechn@xtra.co.nz

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**Pamperine Services Ltd ..... See Pg 4**  
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 Email tui@saltservices.co.nz  
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 ..... 09 422 5733

Stem to Stern Boat Valet  
 Auckland Central ..... 09 379 0894

Vessel Management Services  
 157 Westhaven Drive, Westhaven ... 09 360 9867

Weber Marine  
 PO Box 58353, Greenmount  
 Braden Weber ..... 0212239676  
 www.webermarine.co.nz/braden@webermarine.co.nz

Yachteze  
 39 Bramley Drive, Pakuranga ..... 09 576 2343  
 www.yachteze.co.nz / chris@yachteze.co.nz  
 Water Colour Boat Painters Ltd  
 Andy Murfitt ..... 0226582175  
 www.watercolourboatpainters.co.nz

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 Unit 3 57 Ben Lomond Crescent, Pakuranga  
 ..... 09 576 9085

Moir St Boat Park  
 39 Moit Street, Mangawhai  
 ..... 09 945 0644  
 ..... George 021 135 0330

**Norsand Boatyard ..... See Pg 12**  
**10 Fraser Street, Whangarei**  
**www.norsand.co.nz ..... 09 430 8485**

Omaha Boat Storage  
 122 Omaha Flats, Warkworth ..... 09 422 7186

Orams Marine Boatpark  
 142 Beaumont Street, Westhaven .. 09 308 4806  
 www.orams.co.nz

**Pier 21 Marine Centre..... See Pg 30**  
**15 Westhaven Drive, Westhaven .. 09 374 4461**  
**www.pier21.co.nz / info@pier21.co.nz**

Span Farm DIY Boat Yard & Slipway  
 20 Akatea Road, Glendene ..... 09 818 4586



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Boat Haulage Ltd  
300 Beach Haven Road, Beachhaven  
..... 09 483 8111  
..... AH Bob Wylie 09 418 0425  
info@boathaulage.co.nz / www.boathaulage.co.nz

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**Mob: 021 426 509**

**Web: exclusiveboathaulage.co.nz**

**Email: info@exclusiveboathaulage.co.nz**

Jeffs Vehicle Deliveries Ltd  
www.jeffs.co.nz ..... 0800453337

Marine Haulage & Storage  
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..... 09 834 3259

McLeod Cranes  
Tauranga, Hamilton, Taupo  
..... 0508 625 363  
www.mcleod.nz

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www.turbo.co.nz

Auckland Fuel Injection & Turbo  
26B Kervyn Avenue, East Tamaki ... 09 265 2001  
akfuel@xtra.co.nz

Dcaps.....  
Diesel Cleaning & Polishing Services  
Kane..... 027 366 2403  
kane@dcaps.nz  
www.dcaps.nz

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Diesel & Turbo  
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nz@morrow.com

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**Norsand Boatyard ..... See Pg 12**  
**10 Fraser Street, Whangarei**  
**www.norsand.co.nz ..... 09 430 8485**

NZ Rigging  
31 Woodside Avenue, Northcote ... 09 480 8090  
www.nzrigging.com / info@nzrigging.com

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Yachtspars New Zealand Ltd  
161 Old Railway Road, Kumeu ..... 09 412 7100

## REFRIGERATION

Cool It Marine Refrigeration  
Des Knight ..... 0274993880 or 09 424 8742  
desknight@xtra.co.nz

**Extremely Cool Refrigeration Ltd .....See Pg 51**  
**PO Box 523, Whangaparaoa**  
**Darrin Kennedy ....0274490032 / 09 428 2284**  
**darrin.excool@xtra.co.nz**

Total Refrigeration Ltd  
2 E Manga Road, Silverdale, 0932, New Zealand  
..... 09 420 3404 / 09 426 0690

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Tank Test Laboratories  
30 Glasgow Avenue, Manukau City  
..... 09 277 4360  
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Aquaplumb Auckland Wide Ltd  
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..... 09 816 9280 / 021950924  
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Bowman Gas & Plumbing Ltd  
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..... 0275599601  
mat@bowman.co.nz

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Kiwi Feather Props  
PO Box 25-367, St Heliers Bay, Auckland  
..... 09 575 7975

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42 Edward Jonkers Drive, RD3, Albany  
09 412 8329/021916795  
www.nautechmarine.co.nz

Progressive Polishers & Electroplaters Limited  
3 Veronica Street East, New Lynn,  
Waitakere 0600  
09 827-1161  
email: theguys@ppe.co.nz

Randell Stainless  
12, Dryden Place, Ellerslie, Auckland,  
New Zealand.  
..... 09 525 0353

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Units 1 -3 Fencible Chambers, Fencible Drive,  
Howick Village.  
www.galbraiths.co.nz .....535-4190

Jones Law Barristers & Solicitors  
437 Lake Road, Takapuna, Auckland  
..... 09 486 0950  
www.jones-law.co.nz / kevin@jones-law.co.nz

**Rennie Cox Lawyers ..... See Pgs 49, 137**  
**Reception, Level 15, 126 Vincent Street**  
**Auckland 1010, New Zealand**  
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## TRAVEL AGENT

Cruiseabout Howick  
16 Moore Street Howick  
..... Phone 09 523 8066  
www.cruiseabout.co.nz

## ACCOMMODATION

Great Barrier Lodge  
735 Whangaparapara Road Great Barrier Island  
..... Ph 09 429 0488  
Email booking@greatbarrierlodge.co.nz  
www.greatbarrierlodge.co.nz



## SALT ICE FLAKE & BAIT

Brass Monkey Ice  
55 Onehunga Harbour Road  
Onehunga Wharf ..... Ph 09 636 1064  
Email [aceice@extra.co.nz](mailto:aceice@extra.co.nz) [www.brassmonkeyice.co.nz](http://www.brassmonkeyice.co.nz)

## FINANCIAL SERVICES

Albany Accounting  
25 Quail Drive, Albany, Auckland 0632  
..... 09 415 8501  
Email: [contactus@albanyaccounting.nz](mailto:contactus@albanyaccounting.nz)  
[www.albanyaccounting.nz](http://www.albanyaccounting.nz)

**Collinson & Co ..... See Pg 3**  
**Corner of Customs & Albert Streets Auckland**  
**Email [john.collinson@collinsonco.com](mailto:john.collinson@collinsonco.com)**  
**[www.collinsonco.com](http://www.collinsonco.com)**

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35 May Street, Mount Manganui, Tauranga.....  
..... 07 574 8204

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Email: [trade@blazecut.co.nz](mailto:trade@blazecut.co.nz).....+642246288869

## FUNERAL DIRECTORS

Davis Funerals  
..... 09 576 7108  
400 Dominion Road Mt Eden  
150 Central Park Drive Henderson  
2A Udys Road Pakuranga.  
[www.davisfunerals.co.nz](http://www.davisfunerals.co.nz)

H Morris Funeral Services Romaleigh Funeral Home  
..... Ph 09 4895737  
31 Ocean View Road Northcote  
[www.morrisfunerals.co.nz](http://www.morrisfunerals.co.nz)

## RECRUITMENT

Intransit Consulting Ltd  
..... Ph 09623 3723  
Email [viv@in-transit.co.nz](mailto:viv@in-transit.co.nz)  
[www.in-transit.co.nz](http://www.in-transit.co.nz)

## PROVISIONS

New World Botany  
588 Chapel Road Botany Town Centre.  
..... Ph 092711800  
[www.newworld.co.nz](http://www.newworld.co.nz)

## VALUATIONS MARINE

NZ Marine Valuations Ltd  
Ian Walker Mobile ..... 027 492 1676  
..... Ph 09 3024199  
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Premium Real Estate  
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Email [Group@premium.co.nz](mailto:Group@premium.co.nz)

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Mobile: 0274 923 018  
Email [mattkathy@actrix.gen.nz](mailto:mattkathy@actrix.gen.nz)  
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Fax +61 2 9235 2912

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Auckland 1140 New Zealand  
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Fax +649 302 5361

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91 Gordon Street, Suva  
PO Box 36 Suva Fiji  
Phone +679 3304 528  
Fax +679 330 0057 / 331 6360



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

## DECEMBER 2018

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0232	3.1	<b>9</b>	0317	0.5	<b>17</b>	0301	2.7	<b>25</b>	0344	0.2
Sa	0831	0.7	Su	0945	3.2	Mo	0907	1.1	Tu	1012	3.5
	1502	3.2		1538	0.7		1534	2.8		1614	0.4
	2112	0.7		2200	3.1		2141	1.0		2238	3.4
<b>2</b>	0334	3.0	<b>10</b>	0357	0.6	<b>18</b>	0357	2.7	<b>26</b>	0434	0.2
Su	0936	0.7	Mo	1026	3.2	Tu	1005	1.1	We	1103	3.6
	1602	3.1		1620	0.7		1626	2.8		1707	0.4
	2213	0.7		2241	3.0		2234	0.9		2331	3.4
<b>3</b>	0437	3.0	<b>11</b>	0436	0.6	<b>19</b>	0456	2.8	<b>27</b>	0525	0.3
Mo	1039	0.8	Tu	1107	3.2	We	1101	1.0	Th	1155	3.5
	1700	3.1		1702	0.8		1719	2.9		1801	0.4
	2312	0.7		2322	3.0		2328	0.8			
<b>4</b>	0539	3.0	<b>12</b>	0515	0.7	<b>20</b>	0553	2.9	<b>28</b>	0023	3.3
Tu	1139	0.7	We	1147	3.1	Th	1156	0.9	Fr	0618	0.4
	1757	3.1		1745	0.8		1812	3.0		1249	3.5
										1856	0.5
<b>5</b>	0008	0.6	<b>13</b>	0001	2.9	<b>21</b>	0021	0.7	<b>29</b>	0117	3.3
We	0636	3.1	Th	0554	0.8	Fr	0648	3.0	Sa	0713	0.5
	1233	0.7		1228	3.0		1248	0.8		1344	3.4
	1851	3.1		1828	0.9		1906	3.1		1952	0.6
<b>6</b>	0100	0.6	<b>14</b>	0042	2.8	<b>22</b>	0113	0.5	<b>30</b>	0214	3.2
Th	0729	3.2	Fr	0636	0.9	Sa	0741	3.2	Su	0812	0.6
	1324	0.7		1311	2.9		1339	0.7		1440	3.2
	1942	3.1		1913	0.9		2000	3.2		2050	0.6
<b>7</b>	0149	0.5	<b>15</b>	0124	2.8	<b>23</b>	0204	0.4	<b>31</b>	0313	3.1
Fr	0817	3.2	Sa	0721	1.0	Su	0831	3.3	Mo	0913	0.8
	1411	0.7		1356	2.9		1430	0.5		1537	3.1
	2030	3.1		2000	1.0		2053	3.3		2148	0.7
<b>8</b>	0234	0.5	<b>16</b>	0210	2.7	<b>24</b>	0254	0.3			
Sa	0902	3.3	Su	0811	1.0	Mo	0922	3.5			
	1455	0.7		1444	2.8		1521	0.5			
	2116	3.1		2050	1.0		2146	3.4			

TIMES LISTED ARE N.Z. DAYLIGHT TIME

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**JANUARY 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

Time	m	Time	m	Time	m	Time	m
<b>1</b>	0414 3.0	<b>9</b>	0412 0.7	<b>17</b>	0412 2.8	<b>25</b>	0508 0.2
Tu	1015 0.8	We	1042 3.2	Th	1019 1.0	Fr	1137 3.6
	1634 3.1		1638 0.8		1636 2.9		1743 0.3
	2247 0.7		2256 3.0		2249 0.8		
<b>2</b>	0515 3.0	<b>10</b>	0449 0.7	<b>18</b>	0515 2.9	<b>26</b>	0005 3.5
We	1115 0.9	Th	1120 3.1	Fr	1119 1.0	Sa	0600 0.3
	1731 3.0		1718 0.8		1736 3.0		1229 3.5
	2343 0.7		2334 3.0		2348 0.7		1836 0.4
<b>3</b>	0612 3.0	<b>11</b>	0526 0.8	<b>19</b>	0616 3.0	<b>27</b>	0057 3.4
Th	1210 0.9	Fr	1158 3.1	Sa	1218 0.8	Su	0653 0.5
	1826 3.0		1758 0.8		1837 3.1		1322 3.4
							1929 0.5
<b>4</b>	0037 0.7	<b>12</b>	0012 2.9	<b>20</b>	0046 0.6	<b>28</b>	0151 3.2
Fr	0706 3.1	Sa	0605 0.8	Su	0714 3.2	Mo	0749 0.7
	1301 0.8		1238 3.0		1314 0.7		1415 3.3
	1918 3.0		1839 0.9		1936 3.2		2023 0.6
<b>5</b>	0127 0.7	<b>13</b>	0051 2.9	<b>21</b>	0141 0.4	<b>29</b>	0247 3.1
Sa	0755 3.1	Su	0646 0.9	Mo	0809 3.4	Tu	0848 0.8
	1349 0.8		1319 3.0		1409 0.6		1509 3.1
	2008 3.0		1921 0.9		2033 3.3		2119 0.8
<b>6</b>	0212 0.7	<b>14</b>	0133 2.8	<b>22</b>	0234 0.3	<b>30</b>	0346 3.0
Su	0840 3.1	Mo	0732 1.0	Tu	0902 3.5	We	0948 0.9
	1434 0.8		1402 2.9		1504 0.4		1605 3.0
	2054 3.0		2007 0.9		2128 3.4		2217 0.8
<b>7</b>	0254 0.7	<b>15</b>	0220 2.8	<b>23</b>	0326 0.2	<b>31</b>	0447 2.9
Mo	0923 3.2	Tu	0822 1.0	We	0954 3.6	Th	1048 1.0
	1516 0.8		1449 2.9		1557 0.4		1702 2.9
	2137 3.0		2056 0.9		2222 3.5		2316 0.9
<b>8</b>	0334 0.7	<b>16</b>	0313 2.8	<b>24</b>	0417 0.2		
Tu	1003 3.2	We	0919 1.1	Th	1046 3.7		
	1558 0.8		1541 2.9		1651 0.3		
	2218 3.0		2151 0.9		2314 3.5		

TIMES LISTED ARE N.Z. DAYLIGHT TIME

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**FEBRUARY 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

Time	m	Time	m	Time	m	Time	m
<b>1</b>	0545 2.9	<b>9</b>	0459 0.8	<b>17</b>	0549 3.1	<b>25</b>	0034 3.4
Fr	1144 1.0	Sa	1129 3.1	Su	1152 0.8	Mo	0630 0.5
	1758 2.9		1728 0.8		1813 3.1		1257 3.4
			2343 3.0				1901 0.5
<b>2</b>	0012 0.9	<b>10</b>	0537 0.8	<b>18</b>	0022 0.6	<b>26</b>	0125 3.3
Sa	0640 3.0	Su	1207 3.1	Mo	0650 3.2	Tu	0723 0.7
	1237 1.0		1807 0.8		1253 0.7		1347 3.2
	1853 2.9				1916 3.2		1952 0.7
<b>3</b>	0103 0.9	<b>11</b>	0021 3.0	<b>19</b>	0120 0.5	<b>27</b>	0219 3.1
Su	0730 3.0	Mo	0616 0.9	Tu	0747 3.4	We	0819 0.9
	1325 1.0		1246 3.1		1350 0.6		1439 3.1
	1944 2.9		1847 0.8		2015 3.4		2046 0.8
<b>4</b>	0149 0.8	<b>12</b>	0101 2.9	<b>20</b>	0215 0.3	<b>28</b>	0316 3.0
Mo	0816 3.1	Tu	0659 0.9	We	0842 3.6	Th	0918 1.0
	1411 0.9		1328 3.0		1445 0.4		1533 2.9
	2031 2.9		1930 0.8		2111 3.5		2143 0.9
<b>5</b>	0231 0.8	<b>13</b>	0146 2.9	<b>21</b>	0308 0.2		
Tu	0858 3.1	We	0748 1.0	Th	0934 3.7		
	1453 0.9		1414 3.0		1539 0.3		
	2114 3.0		2019 0.9		2203 3.6		
<b>6</b>	0310 0.7	<b>14</b>	0238 2.9	<b>22</b>	0359 0.2		
We	0938 3.1	Th	0843 1.0	Fr	1026 3.7		
	1533 0.8		1505 2.9		1631 0.3		
	2153 3.0		2114 0.9		2254 3.6		
<b>7</b>	0347 0.7	<b>15</b>	0338 2.9	<b>23</b>	0449 0.3		
Th	1016 3.2	Fr	0946 1.0	Sa	1116 3.6		
	1612 0.8		1603 2.9		1721 0.3		
	2231 3.0		2215 0.8		2344 3.5		
<b>8</b>	0423 0.7	<b>16</b>	0444 3.0	<b>24</b>	0539 0.4		
Fr	1053 3.1	Sa	1050 1.0	Su	1207 3.5		
	1650 0.8		1707 3.0		1811 0.4		
	2307 3.0		2319 0.7				

TIMES LISTED ARE N.Z. DAYLIGHT TIME

CROWN COPYRIGHT RESERVED



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**MARCH 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0415	2.9	<b>9</b>	0356	0.8	<b>17</b>	0420	3.0	<b>25</b>	0516	0.5
Fr	1017	1.1	Sa	1023	3.2	Su	1028	0.9	Mo	1142	3.5
	1630	2.8		1620	0.7		1647	3.0		1744	0.5
	2244	1.0		2239	3.1		2257	0.8			
<b>2</b>	0514	2.9	<b>10</b>	0432	0.8	<b>18</b>	0526	3.1	<b>26</b>	0009	3.4
Sa	1115	1.1	Su	1100	3.2	Mo	1132	0.8	Tu	0605	0.6
	1729	2.8		1658	0.7		1755	3.1		1230	3.3
	2343	1.0		2316	3.1					1831	0.6
<b>3</b>	0610	2.9	<b>11</b>	0510	0.8	<b>19</b>	0001	0.7	<b>27</b>	0058	3.3
Su	1209	1.1	Mo	1138	3.1	Tu	0628	3.3	We	0656	0.8
	1825	2.8		1737	0.7		1233	0.7		1319	3.2
				2354	3.1		1858	3.2		1919	0.8
<b>4</b>	0036	1.0	<b>12</b>	0550	0.8	<b>20</b>	0100	0.5	<b>28</b>	0149	3.1
Mo	0701	3.0	Tu	1218	3.1	We	0726	3.4	Th	0750	0.9
	1258	1.0		1817	0.7		1331	0.5		1408	3.0
	1918	2.8					1957	3.4		2010	0.9
<b>5</b>	0123	0.9	<b>13</b>	0035	3.1	<b>21</b>	0156	0.4	<b>29</b>	0243	3.0
Tu	0747	3.0	We	0634	0.9	Th	0820	3.5	Fr	0846	1.0
	1343	1.0		1301	3.1		1425	0.4		1500	2.9
	2005	2.9		1901	0.8		2052	3.5		2107	1.0
<b>6</b>	0205	0.9	<b>14</b>	0121	3.0	<b>22</b>	0248	0.3	<b>30</b>	0340	2.9
We	0829	3.1	Th	0723	0.9	Fr	0913	3.6	Sa	0944	1.1
	1425	0.9		1348	3.0		1518	0.3		1556	2.8
	2047	3.0		1950	0.8		2143	3.6		2207	1.1
<b>7</b>	0244	0.8	<b>15</b>	0214	3.0	<b>23</b>	0338	0.3	<b>31</b>	0439	2.9
Th	0909	3.1	Fr	0820	1.0	Sa	1003	3.6	Su	1041	1.1
	1505	0.8		1441	3.0		1608	0.3		1655	2.7
	2126	3.0		2046	0.8		2233	3.6		2308	1.1
<b>8</b>	0320	0.8	<b>16</b>	0314	3.0	<b>24</b>	0427	0.4			
Fr	0946	3.2	Sa	0922	1.0	Su	1053	3.6			
	1543	0.8		1541	3.0		1656	0.4			
	2203	3.1		2150	0.8		2321	3.5			

TIMES LISTED ARE N.Z. DAYLIGHT TIME

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**APRIL 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0534	2.9	<b>9</b>	0345	0.8	<b>17</b>	0507	3.3	<b>25</b>	0528	0.8
Mo	1135	1.1	Tu	1012	3.2	We	1114	0.7	Th	1149	3.1
	1752	2.8		1610	0.6		1741	3.2		1746	0.8
				2231	3.2		2341	0.6			
<b>2</b>	0003	1.1	<b>10</b>	0428	0.8	<b>18</b>	0604	3.4	<b>26</b>	0018	3.1
Tu	0625	2.9	We	1055	3.2	Th	1211	0.5	Fr	0619	1.0
	1225	1.1		1652	0.7		1838	3.4		1236	2.9
	1846	2.8		2315	3.2					1834	1.0
<b>3</b>	0051	1.0	<b>11</b>	0515	0.8	<b>19</b>	0035	0.5	<b>27</b>	0109	3.0
We	0712	3.0	Th	1141	3.1	Fr	0658	3.5	Sa	0713	1.0
	1311	1.0		1738	0.7		1304	0.4		1326	2.8
	1933	2.9					1932	3.5		1927	1.1
<b>4</b>	0133	0.9	<b>12</b>	0003	3.1	<b>20</b>	0127	0.4	<b>28</b>	0203	2.9
Th	0754	3.0	Fr	0607	0.9	Sa	0749	3.5	Su	0808	1.1
	1353	0.9		1231	3.1		1355	0.4		1419	2.8
	2016	3.0		1829	0.8		2022	3.6		2026	1.1
<b>5</b>	0212	0.9	<b>13</b>	0058	3.1	<b>21</b>	0216	0.4	<b>29</b>	0259	2.9
Fr	0834	3.1	Sa	0705	0.9	Su	0840	3.5	Mo	0903	1.1
	1433	0.8		1326	3.0		1443	0.4		1516	2.7
	2056	3.1		1927	0.8		2110	3.6		2127	1.2
<b>6</b>	0250	0.8	<b>14</b>	0158	3.1	<b>22</b>	0304	0.5	<b>30</b>	0353	2.9
Sa	0913	3.1	Su	0807	0.9	Mo	0928	3.4	Tu	0956	1.1
	1511	0.8		1427	3.0		1530	0.4		1613	2.7
	2134	3.1		2032	0.8		2157	3.5		2222	1.1
<b>7</b>	0227	0.8	<b>15</b>	0303	3.1	<b>23</b>	0352	0.6			
Su	0852	3.2	Mo	0911	0.9	Tu	1016	3.3			
	1450	0.7		1533	3.0		1615	0.5			
	2111	3.2		2139	0.8		2243	3.4			
<b>8</b>	0305	0.8	<b>16</b>	0406	3.2	<b>24</b>	0439	0.7			
Mo	0931	3.2	Tu	1014	0.8	We	1103	3.2			
	1529	0.7		1639	3.1		1700	0.7			
	2150	3.2		2242	0.7		2330	3.3			

TIMES LISTED HAVE BEEN ADJUSTED FOR N.Z. DAYLIGHT TIME AS REQUIRED

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**MAY 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0443	2.9	<b>9</b>	0411	0.8	<b>17</b>	0541	3.3	<b>25</b>	0548	1.0
We	1046	1.0	Th	1036	3.2	Fr	1150	0.6	Sa	1204	2.9
	1707	2.8		1632	0.6		1819	3.3		1759	1.0
	2312	1.1		2259	3.3						
<b>2</b>	0530	2.9	<b>10</b>	0501	0.8	<b>18</b>	0015	0.6	<b>26</b>	0035	3.0
Th	1132	1.0	Fr	1125	3.2	Sa	0635	3.4	Su	0637	1.0
	1756	2.9		1721	0.6		1242	0.5		1250	2.8
	2356	1.0		2350	3.3		1911	3.4		1848	1.1
<b>3</b>	0614	3.0	<b>11</b>	0555	0.8	<b>19</b>	0105	0.6	<b>27</b>	0124	2.9
Fr	1216	0.9	Sa	1218	3.1	Su	0726	3.4	Mo	0728	1.1
	1840	3.0		1814	0.7		1332	0.5		1339	2.8
							2000	3.5		1942	1.1
<b>4</b>	0037	0.9	<b>12</b>	0045	3.2	<b>20</b>	0154	0.6	<b>28</b>	0215	2.9
Sa	0657	3.1	Su	0653	0.8	Mo	0816	3.3	Tu	0820	1.1
	1258	0.8		1314	3.1		1419	0.5		1432	2.7
	1922	3.1		1913	0.8		2047	3.5		2040	1.2
<b>5</b>	0117	0.9	<b>13</b>	0145	3.2	<b>21</b>	0241	0.6	<b>29</b>	0306	2.9
Su	0738	3.1	Mo	0754	0.8	Tu	0904	3.3	We	0911	1.1
	1339	0.7		1415	3.1		1504	0.5		1527	2.7
	2003	3.2		2016	0.8		2133	3.4		2136	1.2
<b>6</b>	0158	0.8	<b>14</b>	0246	3.2	<b>22</b>	0327	0.7	<b>30</b>	0356	2.9
Mo	0821	3.2	Tu	0856	0.8	We	0950	3.2	Th	1001	1.0
	1421	0.6		1519	3.1		1547	0.6		1622	2.8
	2044	3.3		2122	0.8		2217	3.3		2228	1.1
<b>7</b>	0240	0.8	<b>15</b>	0347	3.2	<b>23</b>	0414	0.8	<b>31</b>	0444	2.9
Tu	0904	3.2	We	0957	0.7	Th	1035	3.1	Fr	1050	1.0
	1503	0.6		1622	3.1		1630	0.7		1714	2.9
	2127	3.3		2224	0.7		2302	3.2		2315	1.0
<b>8</b>	0324	0.7	<b>16</b>	0445	3.3	<b>24</b>	0500	0.9			
We	0949	3.2	Th	1055	0.6	Fr	1119	3.0			
	1547	0.6		1723	3.2		1713	0.8			
	2211	3.3		2321	0.7		2347	3.1			

TIMES LISTED ARE N.Z. STANDARD TIME

CROWN COPYRIGHT RESERVED



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**JUNE 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0531	3.0	<b>9</b>	0543	0.7	<b>17</b>	0045	0.7	<b>25</b>	0044	3.0
Sa	1137	0.9	Su	1205	3.2	Mo	0704	3.2	Tu	0647	1.0
	1803	3.0		1800	0.6		1310	0.6		1258	2.8
							1939	3.3		1858	1.1
<b>2</b>	0000	1.0	<b>10</b>	0032	3.3	<b>18</b>	0132	0.7	<b>26</b>	0131	2.9
Su	0617	3.0	Mo	0640	0.7	Tu	0753	3.2	We	0735	1.0
	1222	0.7		1301	3.2		1356	0.6		1347	2.8
	1849	3.1		1858	0.7		2025	3.3		1951	1.1
<b>3</b>	0045	0.9	<b>11</b>	0129	3.3	<b>19</b>	0219	0.7	<b>27</b>	0218	2.9
Mo	0704	3.1	Tu	0739	0.7	We	0841	3.1	Th	0824	1.0
	1308	0.6		1400	3.1		1439	0.6		1440	2.7
	1934	3.2		2000	0.8		2109	3.3		2047	1.1
<b>4</b>	0130	0.8	<b>12</b>	0228	3.3	<b>20</b>	0304	0.8	<b>28</b>	0307	2.9
Tu	0751	3.2	We	0838	0.7	Th	0925	3.1	Fr	0915	1.0
	1353	0.5		1502	3.1		1521	0.7		1535	2.8
	2019	3.3		2103	0.8		2152	3.2		2142	1.1
<b>5</b>	0216	0.7	<b>13</b>	0326	3.2	<b>21</b>	0348	0.8	<b>29</b>	0357	2.9
We	0840	3.2	Th	0937	0.7	Fr	1008	3.0	Sa	1007	0.9
	1439	0.5		1604	3.1		1601	0.7		1631	2.8
	2106	3.4		2204	0.8		2234	3.2		2234	1.1
<b>6</b>	0305	0.7	<b>14</b>	0423	3.2	<b>22</b>	0432	0.9	<b>30</b>	0449	2.9
Th	0929	3.3	Fr	1034	0.7	Sa	1050	3.0	Su	1058	0.8
	1526	0.4		1703	3.2		1642	0.8		1725	3.0
	2154	3.4		2301	0.8		2316	3.1		2325	1.0
<b>7</b>	0355	0.7	<b>15</b>	0519	3.2	<b>23</b>	0516	0.9			
Fr	1020	3.3	Sa	1129	0.6	Su	1131	2.9			
	1615	0.5		1759	3.2		1724	0.9			
	2244	3.4		2354	0.7						
<b>8</b>	0448	0.7	<b>16</b>	0612	3.2	<b>24</b>	0000	3.0			
Sa	1111	3.3	Su	1221	0.6	Mo	0601	1.0			
	1706	0.5		1850	3.3		1214	2.9			
	2337	3.4					1809	1.0			

TIMES LISTED ARE N.Z. STANDARD TIME

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**JULY 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0541	3.0	<b>9</b>	0015	3.4	<b>17</b>	0112	0.8	<b>25</b>	0048	2.9
Mo	1149	0.7	Tu	0622	0.6	We	0733	3.0	Th	0651	0.9
	1817	3.1		1244	3.2		1334	0.7		1305	2.8
				1841	0.6		2003	3.2		1907	1.1
<b>2</b>	0015	0.8	<b>10</b>	0110	3.3	<b>18</b>	0157	0.8	<b>26</b>	0133	2.9
Tu	0634	3.1	We	0719	0.6	Th	0819	3.0	Fr	0739	0.9
	1240	0.6		1341	3.2		1416	0.7		1355	2.8
	1907	3.3		1941	0.7		2045	3.2		2001	1.1
<b>3</b>	0105	0.7	<b>11</b>	0206	3.2	<b>19</b>	0240	0.8	<b>27</b>	0222	2.9
We	0726	3.2	Th	0816	0.7	Fr	0902	3.0	Sa	0831	0.9
	1329	0.5		1442	3.1		1456	0.7		1451	2.8
	1956	3.4		2043	0.8		2126	3.2		2058	1.1
<b>4</b>	0155	0.6	<b>12</b>	0303	3.2	<b>20</b>	0322	0.8	<b>28</b>	0315	2.9
Th	0819	3.3	Fr	0915	0.7	Sa	0942	3.0	Su	0926	0.9
	1418	0.4		1543	3.1		1534	0.7		1552	2.8
	2046	3.5		2144	0.8		2206	3.2		2156	1.0
<b>5</b>	0247	0.6	<b>13</b>	0400	3.1	<b>21</b>	0403	0.8	<b>29</b>	0411	2.9
Fr	0911	3.4	Sa	1013	0.7	Su	1021	3.0	Mo	1023	0.8
	1508	0.3		1642	3.1		1613	0.8		1651	3.0
	2136	3.5		2241	0.9		2245	3.1		2253	0.9
<b>6</b>	0339	0.5	<b>14</b>	0456	3.1	<b>22</b>	0444	0.8	<b>30</b>	0510	3.0
Sa	1003	3.4	Su	1109	0.7	Mo	1059	2.9	Tu	1120	0.7
	1558	0.3		1738	3.1		1652	0.8		1748	3.1
	2228	3.5		2335	0.8		2325	3.0		2348	0.8
<b>7</b>	0433	0.5	<b>15</b>	0551	3.0	<b>23</b>	0525	0.9	<b>31</b>	0608	3.1
Su	1056	3.4	Mo	1201	0.7	Tu	1138	2.9	We	1215	0.5
	1650	0.4		1830	3.2		1733	0.9		1842	3.3
	2321	3.5									
<b>8</b>	0527	0.5	<b>16</b>	0025	0.8	<b>24</b>	0006	3.0			
Mo	1149	3.3	Tu	0643	3.0	We	0607	0.9			
	1744	0.5		1250	0.7		1219	2.8			
				1918	3.2		1817	1.0			

TIMES LISTED ARE N.Z. STANDARD TIME

CROWN COPYRIGHT RESERVED



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**AUGUST 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0042	0.6	<b>9</b>	0142	3.2	<b>17</b>	0216	0.8	<b>25</b>	0144	2.8
Th	0705	3.2	Fr	0750	0.7	Sa	0837	3.0	Su	0751	0.9
	1308	0.4		1418	3.1		1431	0.7		1415	2.8
	1934	3.4		2020	0.8		2059	3.1		2022	1.0
<b>2</b>	0136	0.5	<b>10</b>	0238	3.1	<b>18</b>	0256	0.8	<b>26</b>	0240	2.8
Fr	0800	3.4	Sa	0849	0.8	Su	0915	3.0	Mo	0850	0.9
	1359	0.3		1519	3.0		1508	0.7		1518	2.8
	2026	3.6		2121	0.9		2137	3.1		2125	1.0
<b>3</b>	0229	0.4	<b>11</b>	0336	3.0	<b>19</b>	0334	0.7	<b>27</b>	0341	2.9
Sa	0853	3.4	Su	0949	0.8	Mo	0952	3.0	Tu	0953	0.8
	1450	0.2		1619	3.0		1544	0.7		1622	3.0
	2117	3.6		2220	0.9		2214	3.1		2226	0.9
<b>4</b>	0322	0.3	<b>12</b>	0434	2.9	<b>20</b>	0412	0.7	<b>28</b>	0445	3.0
Su	0945	3.5	Mo	1047	0.8	Tu	1028	3.0	We	1055	0.7
	1540	0.2		1716	3.0		1621	0.8		1722	3.1
	2209	3.6		2314	0.9		2251	3.0		2325	0.7
<b>5</b>	0414	0.3	<b>13</b>	0530	2.9	<b>21</b>	0450	0.8	<b>29</b>	0547	3.1
Mo	1037	3.5	Tu	1141	0.8	We	1105	3.0	Th	1153	0.5
	1632	0.3		1808	3.0		1700	0.8		1819	3.3
	2301	3.6					2330	3.0			
<b>6</b>	0507	0.4	<b>14</b>	0005	0.9	<b>22</b>	0530	0.8	<b>30</b>	0022	0.6
Tu	1129	3.4	We	0623	2.9	Th	1144	2.9	Fr	0646	3.3
	1725	0.4		1230	0.8		1742	0.9		1248	0.3
	2353	3.5		1855	3.1					1913	3.5
<b>7</b>	0600	0.4	<b>15</b>	0051	0.8	<b>23</b>	0011	2.9	<b>31</b>	0117	0.4
We	1223	3.3	Th	0712	2.9	Fr	0612	0.8	Sa	0742	3.4
	1820	0.6		1314	0.7		1228	2.8		1340	0.2
				1939	3.1		1829	1.0		2005	3.6
<b>8</b>	0047	3.3	<b>16</b>	0135	0.8	<b>24</b>	0055	2.9			
Th	0654	0.6	Fr	0756	3.0	Sa	0658	0.9			
	1319	3.2		1354	0.7		1318	2.8			
	1919	0.7		2020	3.1		1922	1.0			

TIMES LISTED ARE N.Z. STANDARD TIME

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

## SEPTEMBER 2019

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0210	0.3	<b>9</b>	0309	2.8	<b>17</b>	0304	0.7	<b>25</b>	0318	2.9
	0835	3.5		0922	0.9		0923	3.1		0928	0.8
Su	1431	0.1	Mo	1552	2.9	Tu	1516	0.7	We	1557	3.0
	2056	3.6		2156	1.0		2143	3.1		2204	0.8
<b>2</b>	0301	0.2	<b>10</b>	0409	2.8	<b>18</b>	0341	0.7	<b>26</b>	0425	3.0
	0926	3.6		1023	0.9		0959	3.1		1033	0.6
Mo	1521	0.2	Tu	1650	2.9	We	1553	0.7	Th	1659	3.1
	2147	3.6		2251	1.0		2220	3.0		2305	0.7
<b>3</b>	0352	0.2	<b>11</b>	0507	2.8	<b>19</b>	0418	0.7	<b>27</b>	0529	3.1
	1016	3.5		1119	0.9		1036	3.0		1133	0.5
Tu	1611	0.2	We	1742	2.9	Th	1631	0.8	Fr	1757	3.3
	2238	3.5		2342	0.9		2259	3.0			
<b>4</b>	0443	0.3	<b>12</b>	0601	2.8	<b>20</b>	0457	0.7	<b>28</b>	0002	0.5
	1107	3.5		1207	0.8		1115	3.0		0628	3.3
We	1703	0.4	Th	1829	3.0	Fr	1713	0.9	Sa	1228	0.3
	2330	3.4					2340	2.9		1851	3.5
<b>5</b>	0534	0.4	<b>13</b>	0028	0.9	<b>21</b>	0539	0.7	<b>29</b>	0057	0.3
	1159	3.3		0649	2.9		1159	2.9		0823	3.4
Th	1757	0.6	Fr	1250	0.8	Sa	1800	0.9	Su	1420	0.2
				1912	3.0					2043	3.6
<b>6</b>	0022	3.3	<b>14</b>	0110	0.8	<b>22</b>	0025	2.9	<b>30</b>	0249	0.2
	0626	0.5		0732	3.0		0625	0.8		0915	3.6
Fr	1253	3.2	Sa	1329	0.7	Su	1249	2.9	Mo	1511	0.2
	1854	0.7		1952	3.1		1854	1.0		2135	3.6
<b>7</b>	0115	3.1	<b>15</b>	0149	0.7	<b>23</b>	0116	2.8			
	0721	0.7		0811	3.0		0719	0.8			
Sa	1351	3.0	Su	1406	0.7	Mo	1347	2.9			
	1954	0.9		2030	3.1		1955	1.0			
<b>8</b>	0211	2.9	<b>16</b>	0227	0.7	<b>24</b>	0214	2.8			
	0820	0.8		0848	3.0		0821	0.8			
Su	1452	2.9	Mo	1441	0.7	Tu	1452	2.9			
	2056	0.9		2107	3.1		2100	0.9			

TIMES LISTED HAVE BEEN ADJUSTED FOR N.Z. DAYLIGHT TIME AS REQUIRED

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## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**OCTOBER 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0340	0.2	<b>9</b>	0439	2.7	<b>17</b>	0412	0.6	<b>25</b>	0507	3.0
	1005	3.6		1052	1.0		1032	3.1		1112	0.7
Tu	1600	0.2	We	1717	2.8	Th	1627	0.7	Fr	1736	3.2
	2225	3.6		2321	1.0		2252	3.1		2345	0.6
<b>2</b>	0429	0.2	<b>10</b>	0538	2.7	<b>18</b>	0450	0.6	<b>26</b>	0611	3.1
	1054	3.6		1149	1.0		1111	3.1		1212	0.5
We	1650	0.3	Th	1810	2.9	Fr	1708	0.7	Sa	1834	3.3
	2315	3.5					2333	3.0			
<b>3</b>	0517	0.3	<b>11</b>	0012	0.9	<b>19</b>	0530	0.6	<b>27</b>	0042	0.4
	1143	3.5		0632	2.8		1152	3.1		0710	3.3
Th	1740	0.4	Fr	1239	0.9	Sa	1751	0.8	Su	1308	0.4
				1857	2.9					1929	3.4
<b>4</b>	0005	3.3	<b>12</b>	0058	0.9	<b>20</b>	0016	3.0	<b>28</b>	0136	0.3
	0606	0.4		0720	2.8		0613	0.6		0804	3.4
Fr	1233	3.3	Sa	1322	0.8	Su	1238	3.0	Mo	1400	0.3
	1832	0.6		1940	3.0		1840	0.8		2022	3.5
<b>5</b>	0055	3.2	<b>13</b>	0140	0.8	<b>21</b>	0104	2.9	<b>29</b>	0228	0.2
	0656	0.6		0803	2.9		0701	0.7		0855	3.5
Sa	1326	3.1	Su	1400	0.8	Mo	1329	3.0	Tu	1450	0.3
	1927	0.8		2020	3.0		1935	0.9		2113	3.5
<b>6</b>	0147	3.0	<b>14</b>	0219	0.7	<b>22</b>	0156	2.9	<b>30</b>	0318	0.2
	0748	0.7		0842	3.0		0756	0.8		0945	3.6
Su	1421	3.0	Mo	1437	0.7	Tu	1427	3.0	We	1540	0.3
	2025	0.9		2058	3.1		2036	0.9		2203	3.4
<b>7</b>	0241	2.8	<b>15</b>	0257	0.6	<b>23</b>	0256	2.9	<b>31</b>	0406	0.2
	0846	0.9		0919	3.1		0859	0.8		1033	3.5
Mo	1520	2.9	Tu	1513	0.7	We	1530	3.0	Th	1628	0.4
	2126	1.0		2136	3.1		2140	0.8		2252	3.3
<b>8</b>	0339	2.7	<b>16</b>	0334	0.6	<b>24</b>	0400	2.9			
	0949	1.0		0956	3.1		1006	0.8			
Tu	1620	2.8	We	1549	0.7	Th	1635	3.0			
	2226	1.0		2213	3.1		2244	0.7			

TIMES LISTED ARE N.Z. DAYLIGHT TIME

CROWN COPYRIGHT RESERVED



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**NOVEMBER 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0452	0.3	<b>9</b>	0555	2.7	<b>17</b>	0509	0.5	<b>25</b>	0021	0.5
Fr	1120	3.4	Sa	1201	1.0	Su	1134	3.2	Mo	0650	3.2
	1717	0.5		1818	2.8		1736	0.7		1248	0.5
	2340	3.2					2359	3.0		1907	3.3
<b>2</b>	0539	0.4	<b>10</b>	0021	0.9	<b>18</b>	0554	0.5	<b>26</b>	0116	0.4
Sa	1208	3.3	Su	0645	2.8	Mo	1222	3.2	Tu	0745	3.3
	1807	0.6		1246	0.9		1826	0.7		1340	0.5
				1902	2.9					2000	3.3
<b>3</b>	0029	3.1	<b>11</b>	0105	0.8	<b>19</b>	0049	3.0	<b>27</b>	0207	0.3
Su	0625	0.6	Mo	0730	2.9	Tu	0644	0.6	We	0836	3.4
	1258	3.1		1327	0.9		1314	3.1		1431	0.4
	1859	0.8		1944	3.0		1921	0.8		2052	3.3
<b>4</b>	0118	2.9	<b>12</b>	0146	0.7	<b>20</b>	0142	3.0	<b>28</b>	0257	0.3
Mo	0715	0.8	Tu	0811	3.0	We	0739	0.7	Th	0925	3.5
	1350	3.0		1406	0.8		1411	3.1		1520	0.5
	1954	0.9		2025	3.0		2020	0.8		2142	3.3
<b>5</b>	0209	2.8	<b>13</b>	0226	0.6	<b>21</b>	0240	2.9	<b>29</b>	0343	0.3
Tu	0809	0.9	We	0850	3.1	Th	0841	0.7	Fr	1012	3.4
	1445	2.9		1444	0.7		1511	3.1		1608	0.5
	2050	1.0		2105	3.0		2122	0.7		2230	3.2
<b>6</b>	0303	2.7	<b>14</b>	0305	0.6	<b>22</b>	0343	2.9	<b>30</b>	0429	0.4
We	0909	1.0	Th	0929	3.1	Fr	0946	0.7	Sa	1058	3.4
	1542	2.8		1524	0.7		1613	3.1		1655	0.6
	2148	1.0		2146	3.1		2223	0.7		2317	3.1
<b>7</b>	0401	2.6	<b>15</b>	0345	0.5	<b>23</b>	0449	3.0			
Th	1012	1.1	Fr	1009	3.2	Sa	1051	0.7			
	1637	2.8		1605	0.7		1713	3.2			
	2243	1.0		2229	3.1		2324	0.6			
<b>8</b>	0500	2.6	<b>16</b>	0426	0.5	<b>24</b>	0552	3.1			
Fr	1110	1.0	Sa	1050	3.2	Su	1152	0.6			
	1729	2.8		1649	0.7		1811	3.2			
	2334	0.9		2313	3.1						

TIMES LISTED ARE N.Z. DAYLIGHT TIME

CROWN COPYRIGHT RESERVED



## NEW ZEALAND HYDROGRAPHIC AUTHORITY TIDE PREDICTIONS

# AUCKLAND

Lat. 36° 51' S Long. 174° 46' E

**DECEMBER 2019**

### N.Z. LOCAL TIMES AND HEIGHTS OF HIGH AND LOW WATERS

	Time	m		Time	m		Time	m		Time	m
<b>1</b>	0513	0.5	<b>9</b>	0603	2.7	<b>17</b>	0538	0.4	<b>25</b>	0056	0.5
Su	1144	3.2	Mo	1204	1.0	Tu	1208	3.3	We	0726	3.2
	1743	0.7		1819	2.8		1813	0.6		1321	0.7
										1940	3.1
<b>2</b>	0002	3.0	<b>10</b>	0025	0.8	<b>18</b>	0035	3.1	<b>26</b>	0148	0.5
Mo	0557	0.7	Tu	0652	2.8	We	0629	0.5	Th	0817	3.3
	1230	3.1		1249	1.0		1300	3.3		1412	0.6
	1831	0.8		1905	2.9		1907	0.6		2033	3.2
<b>3</b>	0048	2.9	<b>11</b>	0110	0.8	<b>19</b>	0128	3.1	<b>27</b>	0237	0.5
Tu	0642	0.8	We	0737	3.0	Th	0724	0.6	Fr	0906	3.3
	1317	3.0		1333	0.9		1355	3.2		1501	0.6
	1920	0.9		1950	3.0		2003	0.6		2123	3.1
<b>4</b>	0134	2.8	<b>12</b>	0154	0.6	<b>20</b>	0224	3.0	<b>28</b>	0323	0.5
We	0730	0.9	Th	0820	3.1	Fr	0823	0.7	Sa	0952	3.3
	1407	2.9		1416	0.8		1452	3.2		1548	0.6
	2011	0.9		2036	3.0		2102	0.7		2210	3.1
<b>5</b>	0223	2.7	<b>13</b>	0237	0.5	<b>21</b>	0325	3.0	<b>29</b>	0406	0.5
Th	0824	1.0	Fr	0903	3.2	Sa	0926	0.7	Su	1036	3.3
	1458	2.8		1500	0.7		1550	3.2		1633	0.7
	2103	1.0		2122	3.1		2202	0.6		2254	3.1
<b>6</b>	0316	2.7	<b>14</b>	0321	0.5	<b>22</b>	0429	3.0	<b>30</b>	0448	0.6
Fr	0922	1.1	Sa	0947	3.3	Su	1030	0.8	Mo	1119	3.2
	1550	2.8		1545	0.7		1650	3.1		1718	0.7
	2155	1.0		2208	3.1		2302	0.6		2336	3.0
<b>7</b>	0412	2.6	<b>15</b>	0405	0.4	<b>23</b>	0531	3.1	<b>31</b>	0529	0.7
Sa	1021	1.1	Su	1032	3.3	Mo	1131	0.7	Tu	1202	3.1
	1641	2.8		1632	0.6		1748	3.1		1802	0.8
	2247	1.0		2256	3.2						
<b>8</b>	0509	2.7	<b>16</b>	0451	0.4	<b>24</b>	0000	0.6			
Su	1115	1.1	Mo	1119	3.3	Tu	0631	3.2			
	1731	2.8		1722	0.6		1228	0.7			
	2337	0.9		2344	3.2		1845	3.1			

TIMES LISTED ARE N.Z. DAYLIGHT TIME

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# Tidal Deviations From Auckland Harbour

Port/Area	High Tide Deviation	Low Tide Deviation
MAIN PORT: AUCKLAND		
MokoHinau Islands	Minus 22 Mins.	Plus 32 Mins.
Bon Accord Harbour	Minus 15 Mins.	Minus 4 Mins.
Mahurangi Harbour	Plus 2 Mins.	Plus 12 Mins.
Tiritiri Matangi Island	Plus 10 Mins.	Minus 3 Mins.
Matiatia Bay, Waiheke	Plus 0 Mins.	Plus 10 Mins.
Man'O War Bay	Minus 18 Mins.	Minus 18 Mins.
Coromandel Harbour	Minus 21 Mins.	Minus 15 Mins.
Rocky Point (Thames)	Minus 31 Mins.	Minus 24 Mins.
Tryphena	Minus 8 Mins.	Minus 8 Mins.
Manukau Harbour	Plus 3 Hours	





# Distance Table in Nautical Miles

	Algies Bay	Arkles Bay	Big Manly	Bucklands Beach	Chamberlains Bay	Colville Bay	Herald Island	Home Bay	Huruhi Bay	Islington Bay	Kawakawa	Karaka Bay	Kohimarama	Little Manly	Long Bay	McKenzies Bay	Mahurangi	Mansion House
Algies Bay		19	13	30.5	35	36	36	23.5	30	27.5	39	29	28	18	19.5	23	9	3.5
Arkles Bay	19		12	16	38.5	34	22	13	18	16	28	14	13.5	1	2	9.5	20	16.5
Big Manly	13	12		24.5	32	24	31	18	23	24	32	23.5	22	11	13	17	9	13
Bucklands Beach	30.5	16	24.5		17	32.5	14.5	6.5	8.5	5.5	16.5	1.5	3	16.5	14.5	7.5	28.5	29.5
Chamberlains Bay	35	38.5	32	17		18	28.5	15.5	11.5	17.5	9	16.5	18	23.5	23.5	21.5	35	33
Colville Bay	36	34	24	32.5	18		43	27	29	30	14	32	33	33	34	33	37.5	33.5
Herald Island	36	22	31	14.5	28.5	43		17	19.5	15	29	13.5	11	22	20	13.5	34	35
Home Bay	23.5	13	18	6.5	15.5	27	17		6	4	15.5	6	7	12.5	12	9	21.5	22.5
Huruhi Bay	30	18	23	8.5	11.5	29	19.5	6		7.5	12	8	9	19	18	12	28	28.5
Islington Bay	27.5	16	24	5.5	17.5	30	15	4	7.5		16.5	4.5	5	16	14	7	25	26
Kawakawa	39	28	32	16.5	9	14	29	15.5	12	16.5		16	17.5	29.5	27.5	21	37	37.5
Karaka Bay	29	14	23.5	1.5	16.5	32	13.5	6	8	4.5	16		2.5	14.5	12	6	27	28
Kohimarama	28	13.5	22	3	18	33	11	7	9	5	17.5	2.5		13.5	13	5	26	26.5
Little Manly	18	1	11	16.5	23.5	33	22	12.5	19	16	29.5	14.5	13.5		2.5	9	11	16
Long Bay	19.5	2	13	14.5	23.5	34	20	12	18	14	27.5	12	13	2.5		7.5	17	18
McKenzies Bay	23	9.5	17	7.5	21.5	33	13.5	9	12	7	21	6	5	9	7.5		41	31.5
Mahurangi	9	20	9	28.5	35	37.5	34	21.5	28	25	37	27	26	11	17	41		4.5
Mansion House	3.5	16.5	13	29.5	33	33.5	35	22.5	28.5	26	37.5	28	26.5	16	18	4.5	4.5	
Martins Bay	3.5	16	10.5	23.5	33	34.5	34	22	28	19	36.5	27	26	15	17	6.5	6.5	3
Maraetai	31.5	21	21	9.5	8.5	26	21	9	5.5	9	7	8	10.5	20.5	20	30	30	30.5
Matiatia	25.5	24.5	19	8.5	14.5	26	18.5	3	5	5.5	14.5	7	8	14	13.5	23	23	24
Mellons Bay	3	19.5	14.5	32	36	37	37.5	25	31	28.5	40	30.5	29	19	20.5	10.5	10.5	4
Millford	22.5	8	17	9	24	35	15	11	14	9	23	7.5	6.5	7.5	5	21	21	22
Motukorea North	27.5	14.5	22	3	16.5	30	13.5	4	6.5	3	15	2.5	3	16.5	12	25.5	25.5	26.5
Ocean Beach	25	14.5	20	6	14	27.5	16	2	4.5	4.5	14	5	6	14	14	24	24	24.5
Okahu Bay	27	13	22	5.5	20	34	9.5	8	11	6.5	19	4	2	13	11	26	26	27
Onetangi	27	18	21.5	13.5	13	21	24	7.5	10	10	20	12	13	17.5	17	25.5	25.5	26.5
Pakatoa	32	26	28	18.5	3	16.5	30	15.5	12.5	18	10	17.5	19.5	20	25	32	32	31
Panmure	33	19	28	4	20.5	36	18	10	12	9	20	5	7.5	20	17	32	32	32.5
Port Charles	36	33	38	41.5	32	20.5	51	37	33	38	38	40	41	38	40	38	38	34.5
Port Jackson	29	25	30	33	23.5	12.5	44	27	25	30	30	32	33	30	31.5	32	32	27
Ramgitoto Wharf	27	12.5	21.5	4	17.5	31	12.5	5	8	3	17	3	2.5	12.5	7	25	25	26
Sandspit	3.5	20	15.5	33	37	38	38.5	26	32	29.5	41	31.5	30	20	21.5	11.5	11.5	5
Sandy Bay	21.5	11.5	16	9.5	17.5	25	14.5	3	9	6.5	18	9	9.5	10.5	10.5	20	20	20
Second Bay	38.5	28	33	17	6	21	29	15.5	11.5	17	3	16	18	32.5	27.5	37	37	37.5
Stillwater	20	2.5	13.5	17	29.5	35.5	23	23	20.5	17	19.5	15.5	14.5	3	3.5	18	18	19
Te Kouma	41	35	37	28.5	12	14	40	26	23	30	15	28	30	30	35	42	42	39.5
The Noises	19	11	14	11.5	17	23.5	22	5	10	7	19.5	10.5	11.5	11.5	10.5	18	18	18.5
Westhaven	27	16	24	8.5	23	37	6.5	11	14	9	22	7	5.5	5.5	13.5	29	29	29
Woody Bay	20	10.5	15.5	10	18.5	25.5	20.5	3.5	9.5	7	18.5	9	10	10	19.5	19	19	18.5



	Martins Bay	Maraetai	Matiatia	Mellons Bay	Milford	Motukorea North	Ocean Beach	Okahu Bay	Onetangi	Pakatoa	Pannure	Port Charles	Port Jackson	Ramgitoto Wharf	Sandspit	Sandy Bay	Second Bay	Stillwater	Te Kouma	The Noises	Westhaven	Woody Bay
	3.5	31.5	25.5	3	27.5	27.5	25	27	27	32	33	36	29	27	3.5	21.5	38.5	20	41	19	27	20
	16	21	24.5	19.5	8	14.5	14.5	13	18	26	19	33	25	12.5	20	11.5	28	2.5	35	11	16	10.5
	10.5	21	19	14.5	17	28	20	22	21.5	28	28	38	30	21.5	15.5	16	33	13.5	37	14	24	15.5
	23.5	9.5	8.5	32	9	3	6	5.5	13.5	18.5	4	41.5	33	4	33	9.5	17	17	28.5	11.5	8.5	10
	33	8.5	14.5	36	24	16.5	14	20	13	3	20.5	32	23.5	17.5	37	17.5	6	29.5	12	17	23	18.5
	34.5	26	26	37	35	30	27.5	34	21	16.5	36	20.5	12.5	31	38	25	21	35.5	14	23.5	37	25.5
	34	21	18.5	37.5	15	13.5	16	9.5	24	30	18	51	44	12.5	38.5	14.5	29	23	40	22	6.5	20.5
	22	9	3	25	11	4	2	8	7.5	15.5	10	37	27	5	26	3	15.5	23	26	5	11	3.5
	28	5.5	5	31	14	6.5	4.5	11	10	12.5	12	33	25	8	32	9	11.5	20.5	23	10	14	9.5
	19	9	5.5	28.5	9	3	4.5	6.5	10	18	9	38	30	3	29.5	6.5	17	17	30	7	9	7
	36.5	7	14.5	40	23	15	14	19	20	10	20	38	30	17	41	18	3	19.5	15	19.5	22	18.5
	27	8	7	30.5	7.5	2.5	5	4	12	17.5	5	40	32	3	31.5	9	16	15.5	28	10.5	7	9
	26	10.5	8	29	6.5	3	6	2	13	19.5	7.5	41	33	2.5	30	9.5	18	14.5	30	11.5	5.5	10
	15	20.5	14	19	7.5	16.5	14	13	17.5	20	20	38	30	12.5	20	10.5	32.5	3	30	10.5	15.5	10
	17	20	13.5	20.5	5	12	14	11	17	25	17	40	31.5	7	21.5	10.5	27.5	3.5	35	10.5	13.5	19.5
	31	23	10	34.5	3	5.5	8	5	14	21.5	11	40	31	4.5	35.5	7	20.5	10	33	13.5	7	8.5
	6.5	30	23	10.5	21	25.5	24	26	25.5	32	32	39	32	25	11.5	20	37	18	42	18	29	19
	3	30.5	24	4	22	26.5	24.5	27	26.5	31	32.5	34.5	27	26	5	20	37.5	19	39.5	18.5	29	18.5
		23	30	4.5	21	26.5	24	26	26	32	33	27.5	35.5	25	5.5	20	37.5	19	40	18	29	18.5
	23		13	33	15.5	13	12	12	13.5	10	12.5	38.5	30	10	34	11	12.5	22	20	12.5	15	11.5
	30	13		26.5	12.5	6	3	9.5	6.5	15	12	34	26	7.5	27.5	4	15	16	24.5	5.5	12.5	5
	4.5	33	26.5		24.5	29	22	34	29	34	35	33	25.5	28	2.5	23.5	40.5	22	42.5	21	31	22
	21	15.5	12.5	24.5		7.5	10	6	16	24	13	40	33	6	25.5	9.5	22.5	8.5	34	10.5	9	9
	26.5	13	6	29	7.5		3.5	4.5	11	16.5	6.5	38	30.5	2	30	7	15.5	16	27	9	7.5	7.5
	24	12	3	22	10	3.5		7	8	15	9.5	36	28	4	28	5	14	16.5	25	7	10	7.5
	26	12	9.5	34	6	4.5	7		15	21	9.5	42.5	34	4	25	11	16.5	14	32	13.5	3	11.5
	26	13.5	6.5	29	16	11	8	15		10	17.5	30.5	22.5	12	30	7.5	21.5	18	19	7.5	18	9
	32	10	15	34	24	16.5	15	21	10		22.5	28.5	20.5	19	34.5	15	7.5	27.5	12	15	24	16
	33	12.5	12	35	13	6.5	9.5	9.5	17.5	22.5		44	36	8.5	36.5	13	25.5	21	32	15	12.5	14
	27.5	38.5	34	33	40	38	36	42.5	30.5	28.5	44		9	39	38.5	32.5	35.5	40.5	33	32.5	45.5	33
	35.5	30	26	25.5	33	30.5	28	34	22.5	20.5	36	9		31	31	24	27	32.5	23.5	22	37	24
	25	10	7.5	28	6	2	4	4	12	19	8.5	39	31		29	8	17	13.5	29	10	6.5	8.5
	5.5	34	27.5	2.5	25.5	30	28	25	30	34.5	36.5	38.5	31	29		24	41	23	44	22	33	22.5
	20	11	4	23.5	9.5	7	5	11	7.5	15	13	32.5	24	8	24		18	13	24.5	2	13.5	2
	37.5	12.5	15	40.5	22.5	15.5	14	19.5	21.5	7.5	25.5	35.5	27	17	41	18		30.5	12.5	19.5	22	18.5
	19	22	16	22	8.5	16	16.5	14	18	27	21	40.5	32.5	13.5	23	13	30.5		37	12.5	17	12
	40	20	24.5	42.5	34	27	25	32	19	12	32	33	23.5	29	44	24.5	12.5	37		24.5	34	25.5
	18	12.5	5.5	21	10.5	9	7	13.5	7.5	15	15	32.5	22	10	22	2	19.5	12.5	24.5		15.5	2
	29	15	12.5	31	9	7.5	10	3	18	24	12.5	45.5	37	6.5	33	13.5	22	17	34	15.5		14.5
	18.5	11.5	5	22	9	7.5	7.5	11.5	9	16	14	33	24	8.5	22.5	2	18.5	12	25.5	2	14.5	



# Distance Table in Nautical Miles

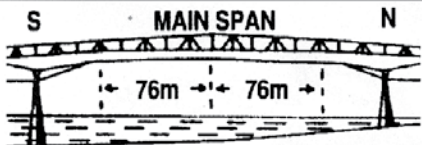
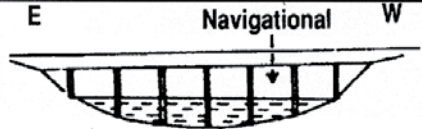
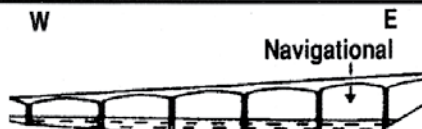
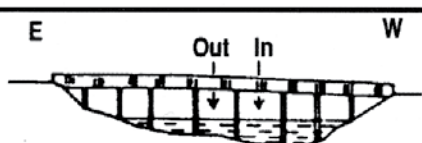
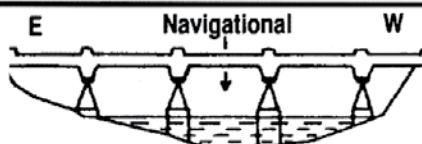
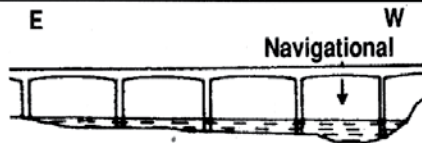
Auckland to Great Barrier Island and Mercury Bay

	Channel Island	Coromandel Hbr.	Chamberlins Bay	Gulf Harbour	Huruhi Harbour	Musick Point	Oneroa Bay	Old Man Rock	Pine Harbour	Port Fitzroy	Rangitoto Beacon	Takatu Point	Te Kouma Harbour	Tiri Tiri Matangi Island	Tryphena Harbour	Wellington Head	Whangaparapara Harbour	Whitianga Harbour
Channel Island		24	26	29	24	33	27	30	33	17	33	23	27	24	9	16	10	40
Coromandel Hbr.	24		13	28	50	27	21	54	24	48	31	39	2	29	33	40	34	64
Chamberlins Bay	26	13		28	50	14	15	53	11	45	20	34	12	23	35	41	36	66
Gulf Harbour	29	28	28		53	17	14	59	18	41	10	19	34	5	38	37	37	69
Huruhi Harbour	24	50	50	53		57	51	7	57	41	57	47	51	48	23	40	28	17
Musick Point	33	27	14	17	57		8	63	5	49	5	32	26	14	42	45	43	73
Oneroa Bay	27	21	15	14	51	8		57	9	42	11	26	23	12	36	39	37	67
Old Man Rock	30	54	53	59	7	63	57		63	47	63	53	57	54	30	46	36	10
Pine Harbour	33	24	11	18	57	5	9	63		49	10	32	23	18	42	47	43	73
Port Fitzroy	17	48	45	41	41	49	42	47	49		47	27	45	37	19	4	13	57
Rangitoto Beacon	33	31	20	10	57	5	11	63	10	47		25	30	11	42	44	43	73
Takatu Point	23	39	34	19	47	32	26	53	32	27	25		39	15	32	24	27	63
Te Kouma Harbour	27	2	12	34	51	26	23	57	23	45	30	39		29	36	44	37	67
Tiri Tiri Matangi Island	24	29	23	5	48	14	12	54	18	37	11	15	29		33	33	36	64
Tryphena Harbour	9	33	35	38	23	42	36	30	42	19	42	32	36	33		13	5	40
Wellington Head	16	40	41	37	40	45	39	46	47	4	44	24	44	33	13		8	56
Whangaparapara Harbour	10	34	36	37	28	43	37	36	43	13	43	27	37	36	5	8		47
Whitianga Harbour	40	64	65	69	17	73	67	10	73	57	73	63	67	64	40	56	47	





# Overhead Bridge Clearances – Hauraki

VIEW FROM SEAWARD	Clearance	Depth
 <p>AUCKLAND HARBOUR BRIDGE</p>	at centre 45.2m at 76m offset 43.0m	18m
 <p>WHAU RIVER BRIDGE (N.W. M'WAY)</p>	7.2m	3.5m
 <p>GREENHITHE BRIDGE (UPPER H'BOUR)</p>	20.8m	10m
 <p>WHAKATAKATAKA BAY (TAMAKI DR.)</p>	Out 6.4m In 6.3m	2.7m 3.3m
 <p>PANMURE BRIDGE (TAMAKI RIVER)</p>	11.3m	7.9m
 <p>PAKURANGA M'WAY BRIDGE</p>	17.2m	on approach 4.5m at bridge 6.0m

Overhead clearances given as heights above chart datum at centre of each span i.e. **subtract tide** to obtain actual clearances. Depths below given as soundings below chart datum i.e. **add tide** to obtain actual depth.



# Services around the Gulf

## Marinas & Local Services

BAYSWATER MARINA		Petrol	Diesel	Water	LPG	Travel-lift
	09 446 1600 24 Hrs Shell Stop – 7 days Sewerage pump station – 7 days 24 hrs	✓	✓	✓		
COROMANDEL		Petrol	Diesel	Water	LPG	Travel-lift
	Ph Coromandel Service Station 07 866 8059	✓	✓			
GREAT BARRIER ISLAND		Petrol	Diesel	Water	LPG	Travel-lift
	<b>Tryphena</b> – Mulberry Grove Store Ph 09 429-0909 Hours – 0800 – 1900 7 days	✓	✓			
	<b>Whangaparapara</b> – 7 days - at wharf, contact Great Barrier Lodge - VHF 06, 08 or 16 - Ph 09 429-0488	✓	✓	✓		
	<b>Port Fitzroy</b> – at wharf (LPG at shop) - Ph 09 4290-056 open 7 days a week from late December to Easter and 2 days for the rest of the year	✓	✓	✓	✓	
	<b>North Barrier Fuel</b> - Ph 09 429-0147 7 days a week from late December to Easter 8.00am to 9am and then 6 days for the rest of the year for 2 hrs in the morning and 1 hr late afternoon					

## Engraving Systems

More than just engravers...




<b>ENGRAVING</b> Trophies Plates Hand Engraving Medals Jewellery Watches	<b>SUBLIMATION</b> Name Badges Front Plates Plaques Pins Badges T Shirts	<b>LASER ENGRAVING</b> Wood Acrylic Glass Vinyl Name Badges 21st Anys Commemorative 1 Pads	<b>INDUSTRIAL</b> Panels Switches Labels Signs Acrylic Plaques Stainless Steel Brass	<b>RETAIL/GIFTS</b> Trophies 21st Anys Glasses Hip Flasks Tankards Pens
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28 Ruyburn Street, Whangarei  
 Ph: 09 438 1744 • Fax: 09 945 4924  
 Hours: Mon – Fri 8.30am – 5.30pm  
[www.engravingsystems.co.nz](http://www.engravingsystems.co.nz)  
[engrave@engravingsystems.co.nz](mailto:engrave@engravingsystems.co.nz)

## ENGRAVING SYSTEMS



GULF HARBOUR MARINA		Petrol	Diesel	Water	LPG	Travel-lift
	24hrs, Shell Ph 09 424-0700	✓	✓	✓		✓
HALF MOON BAY		Petrol	Diesel	Water	LPG	Travel-lift
	09 534 3139 Mobile Marine Stop, 24 hrs Eftpos, MB Card, C/Card with pin only	✓	✓	✓		✓
KAWAU ISLAND		Petrol	Diesel	Water	LPG	Travel-lift
	<b>Kawau Boating Club</b> - (emergency 24 hrs) - Ph 09 422-8845 - BP Fuel Card, EFTPOS, C/Card - Winter hours: (if flag down fuel available) - M/Tu closed - W, Th, Su 0900 – 2000 - Fr, Sa 0900 Dusk	✓	✓	✓		
	<b>Mansion House Bay</b> – at wharf			✓		
LEIGH		Petrol	Diesel	Water	LPG	Travel-lift
	Call Leigh Radio VHF 74	✓	✓	✓		
MARAETAI BEACH		Petrol	Diesel	Water	LPG	Travel-lift
	Boating Club – 24 hrs (tidal) Ph 09 536 6649	✓	✓			
MILFORD MARINA		Petrol	Diesel	Water	LPG	Travel-lift
ORAKEI MARINA		Petrol	Diesel	Water	LPG	Travel-lift
	24 Hours Ph 09 524 8444		✓	✓		Haul out
PANMURE YACHT & BOATING CLUB		Petrol	Diesel	Water	LPG	Travel-lift
	- 24 Hours - Ph 09 570 4078		✓	✓		
PINE HARBOUR MARINA		Petrol	Diesel	Water	LPG	Travel-lift
	- 24 Hours, Shekk fuel card, EFTPOS, C/Card - Ph 09 536 5157	✓	✓	✓	✓	✓
SANDSPIT		Petrol	Diesel	Water	LPG	Travel-lift
	Lees Boatbuilders Ph 09 524 8444			✓		
	Sandspit Marina, Ph 09 4250099	✓	✓	✓		Haul out



WADE RIVER		Petrol	Diesel	Water	LPG	Travel-lift
	Weiti Boating Club - Ph 09 424 5400 - Cash only, access limited at low tide		✓	✓		
WAIHEKE ISLAND		Petrol	Diesel	Water	LPG	Travel-lift
	<b>Oneroa</b> – Waiheke Motors, 7 days - Ph 09 372 8876 - Mon – Fri: 0700 – 2030 - Sat – Sun: 0800 – 1930	✓	✓		✓	
	<b>Ostend</b> – Ostend Motors, 7 days - Ph 09 372 8949	✓	✓	✓		
	<b>Onetangi</b> – Onetangi Service Station, 7 days - Ph 09 372 8661	✓	✓	✓	✓	
	<b>Matiatia</b> – old wharf, most times - Ph 09 372 8661		✓	✓		
	<b>Waiheke Fuels</b> - Ph 0274 461 265		✓			
	<b>Rock Gas Waiheke</b> - Dive bottle fills and bottle swap - Ph 09 372 3606					
WESTHAVEN		Petrol	Diesel	Water	LPG	Travel-lift
	<b>Orams</b> – 24hrs with Orams Fuel Card - Ph 09 303 9999	✓		✓		
	<b>Caltex</b> – 24hrs - Ph 09 377 4206 - Daytime fully staffed - Other times, EFTPOS/Credit Cards with pin	✓	✓	✓	✓	
WESTPARK MARINA		Petrol	Diesel	Water	LPG	Travel-lift
	Ph 09 416 7447 Fuelling by arrangement			✓	✓	✓





# Cruising Information

FROM:	TO:	REMARKS	Tide Knts.max	Compass HDG (mg)	Dist. (nm.)
A Buoy	Channel Island		varies	031	32.8
	Orarapa Is (Haystack)		Neg.	037	8.5
	Flat Rock	caut. Bollons Rock	+/-1kt	357	20.6
	Navy Buoy (WGP. Lighted)		+/-1kt	353	9.5
Navy Buoy (Wgp. Lighted)	A Buoy		+/-1kt	173	9.5
	Gannet Rock	caut. Ahaaha Rks.	+/-1kt	093	16.7
	Orarapa Is (Haystack)		+/- 0.7kts	113	6.8
	Martello Rk (Kawau)	caut. Motuketekete	+/-1kt	332	11.6
Martell Rock (Kawau)	Navy Buoy (WGP. Lighted)	caut. Motuketekete	+/-1kt	152	11.6
Channel Island	A Buoy		varies	211	32.8
	Flat Rock		+/-1kt	247	19.7
	Gannet Rock		varies	185	19.6
	Groper Rock (Mok)	caut. Simpson/Horn	varies	319	34.0
	Cuvier Is. (Light)		varies	075	2.0
Groper Rock (Mok)	Channel Island	caut. Horn/Simpson	varies	139	34.0
	Flat Rock		+/-1kt	173	33.0
	Sail Rock		varies	233	18.5
	Poor Knights (Light)		0.5kt	312	31.0
Orarapa Is (Haystack)	A Buoy		neg	217	8.5
	Navy Buoy (Wgp. Lighted)		+/- 0.7kts	293	6.8
	Flat Rock	caut. Shearer Rock	varies	336	15.1
Sail Rock	Groper Rock (Mok)		varies	053	18.5
Gannet Rock	Navy Buoy (Wgp. Lighted)	Caut. Ahaaha Rks.	+/-1kt	273	16.7
	Channel Island		varies	005	19.6
	Flat Rock		+/-1kt	306	20.3
Flat Rock	Groper Rock (Mok)		+/-1kt	353	33.0
	Orarapa Is (Haystack)	caut. Shearer Rock	varies	156	15.1
	A Buoy	Caut. Bollons Rock	+/-1kt	177	20.6
	Channel Island		+/-1kt	067	19.7
	Gannet Rock		+/-1kt	126	20.3
	Cow (Cow and Calf)		varies	115	31.4
Cow (Cow and Calf)	Flat Rock		varies	295	31.4
Ruthe Passage BN	Calf (Cow and Calf)		+/-1kt	065	9.8
Calf (Cow and Calf)	Ruthe Passage BN		+/-1kt	245	9.8



# Race Signals

The meanings of visual and sound signals are stated below. An arrow pointing up or down (↑ ↓) means that a visual signal is displayed or removed. A dot (•) means a sound; five short dashes (-----) mean repetitive sounds; a long dash (—) means a long sound. When a visual signal is displayed over a class flag, the signal applies only to that class.

## Postponement Signals



**AP** Races not started are *postponed*. The warning signal will be made 1 minute after removal unless at that time the race is *postponed* again or *abandoned*.



**AP over H** Races not started are *postponed*. Further signals ashore.



**AP over A** Races not started are *postponed*. No more racing today.



**Pennant 1** ↑ • • ↓ •



**Pennant 2** ↑ • • ↓ •



**Pennant 3** ↑ • • ↓ •



**Pennant 4** ↑ • • ↓ •



**Pennant 5** ↑ • • ↓ •



**Pennant 6** ↑ • • ↓ •

**AP over a numeral pennant 1–6** *Postponement of 1–6 hours from the scheduled starting time.*

## Abandonment Signals



**N** All races that have started are *abandoned*. Return to the starting area. The warning signal will be made 1 minute after removal unless at that time the race is *abandoned* again or *postponed*.



**N over H** All races are *abandoned*. Further signals ashore.



**N over A** All races are *abandoned*. No more racing today.



## Preparatory Signals



↑● ↓—

**P** Preparatory signal.



↑● ↓—

**I** Rule 30.1 is in effect.



↑● ↓—

**Z** Rule 30.2 is in effect.



↑● ↓—

**Black flag.**  
Rule 30.3 is in effect.

## Recall Signals



↑●

**X** Individual recall.



↑●● ↓●

**First Substitute** General recall.  
The warning signal will be made  
1 minute after removal.

## Shortened Course



↑●●

**S** The course has been shortened. Rule 32.2 is in effect.

## Changing the Next Leg



-----  
**C** The position of the next *mark* has been changed:



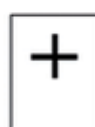
to starboard;



to port;



to decrease  
the length  
of the leg;



to increase  
the length  
of the leg.

## Other Signals



↑●

**L** Ashore: A notice to competitors has been posted.  
Afloat: Come within hail or follow this boat.



-----

**M** The object displaying this signal replaces a missing *mark*.



↑●

**Y** Wear a personal flotation device.






























(no sound)

**Blue flag or shape.** This race committee boat is in position at the finishing line.



# International Code Flags

ALPHABET FLAGS			NUMERAL PENNANTS
Alfa 	Kilo 	Uniform 	1 
Bravo 	Lima 	Victor 	2 
Charlie 	Mike 	Whiskey 	3 
Delta 	November 	Xray 	4 
Echo 	Oscar 	Yankee 	5 
Foxtrot 	Papa 	Zulu 	6 
Golf 	Quebec 	SUBSTITUTES	7 
		1st Substitute 	
Hotel 	Romeo 	2nd Substitute 	8 
India 	Sierra 	3rd Substitute 	9 
Juliett 	Tango 	CODE (Answering Pennant or Decimal Point) 	0 



# Guidance for vessels visiting Northland

Hi All,

Here is some guidance as to the steps vessels entering Northland can take to minimise the risk of spreading unwanted organisms like Mediterranean fanworm, they may be handy to add to your coming newsletters or notice boards so everyone is prepared.

NRC Guidance: As a Regional Council the requirements we enforce is that your hull is free of any marine pests when you travel to our region; having divers do a thorough job of cleaning your hull or having a lift and wash will often be sufficient. As per previous years Northland Regional Council will be contracting local divers to carry out extensive random hull checks during the summer months and we may still check the hull of your vessel so make sure you get evidence from the cleaning facility or divers that your hull (particularly niche areas like the base of the keel, bow thrusters, prop and rudder) is clean. We have seen a number of vessels recently arrive in Northland that had been lifted and washed before entering the region but still had Mediterranean fanworm in niche areas, I would encourage you

## Visiting a Northland marina this summer?

To prevent the spread of marine pests, Northland marinas require visiting vessels to have been recently cleaned – that means:

Antifouled in the last **six months**

or

Lifted and washed in the last **one month**




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to double check these areas before your vessel goes back in the water.

**Marina Requirements:** Recently Marinas have put a number of measures in place to ensure they protect their structures against marine pests so if you are wanting to visit a marina in Northland you will need to be lifted and washed within a month of entering northland. The Marinas are strictly enforcing a 6 or 1 rule where you will need evidence of having either an antifoul within the last 6 months or a lift and wash in the last month. Attached is a flyer with those details and also a copy of the marine pests section of our Regional Pest Management Strategy that contains our rules about marine pests.



## Prove it!

Haul-out receipts, paint receipts – check with the marina what proof is required. Some high-risk vessels may be subject to additional marina requirements.

## Coming from the Auckland Region?

Beware of unwanted hitchhikers! Auckland is a high-risk area for Mediterranean fanworm, a highly invasive marine pest.



## Bookings and information

To find out more about the clean hull requirements or make a booking, contact us:

Whangaroa Marina:  
09 405 0505  
[admin@whangaroamarina.co.nz](mailto:admin@whangaroamarina.co.nz)

Bay of Islands Marina (Opua)  
09 402 7124  
[enquiries@opuamarina.co.nz](mailto:enquiries@opuamarina.co.nz)

Kerikeri (Cruising Club) Marina  
09 407 9434  
[info@kerikericruisingclub.org.nz](mailto:info@kerikericruisingclub.org.nz)

Tutukaka Marina  
09 434 3441  
[marina@tutukaka.co.nz](mailto:marina@tutukaka.co.nz)

Whangarei Marina  
09 438 2033  
[whangarei.marina@xtra.co.nz](mailto:whangarei.marina@xtra.co.nz)

Riverside Drive Marina (Whangarei)  
09 438 2248  
[rdm@riversidedrivemarina.com](mailto:rdm@riversidedrivemarina.com)

Marsden Cove Marina  
09 432 7740  
[info@marsdencovemarina.co.nz](mailto:info@marsdencovemarina.co.nz)



# Rules of the Road

**90% of fatal accidents involve the Skipper not having enough boating knowledge and experience.**

It is the Skipper's responsibility to ensure safety, which includes knowing and understanding the rules that apply before heading out on the water. **If you have an accident, ignorance of the law is not accepted as an excuse. Heavy fines and prison are possible for breaches of maritime rules.**

## Lookout

You must keep a good lookout at all times. It is your responsibility to stay alert for other boats, swimmers, dive boats, kayaks, hazards and obstacles. Listen as well as look.

## Speed

All boats must travel at a safe speed, taking into account the amount of boat traffic in the area, weather conditions and when visibility is affected by glare.

Specifically, you must not exceed a speed of **5 knots** (a fast walking speed) if you are;

- within 200 metres of the shore;
- within 200 metres of a boat displaying a divers flag;
- within 50 metres of any other boat;
- within 50 metres of a person swimming;
- on a power boat if any person has any part of their body outside the rails or edge of the deck.

Unless very closely supervised by an older person, who is in constant reach of the controls, you must be over the age of 15 to operate any power boat which is capable of speed exceeding 10 knots. This includes dinghies and PWCs.

## When Two Boats Meet

When two boats are approaching each other, one has the right of way and it is called the **stand on** boat.

The other boat is called the **give way** boat. The **give way** boat must make an **early** and **obvious** manoeuvre so there can be no confusion.

The **give way** boat must pass astern of (behind) the stand on boat, while the **stand on** boat maintains the same course and speed.

**Every** boat that is **overtaking** must give way. You are overtaking if you are approaching another boat anywhere in a 135 degree sector at its stern.

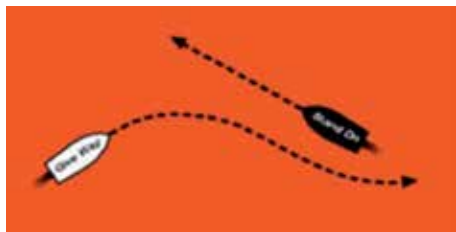


## In Channels and Harbours

- every boat must keep to the starboard (right) side of any channel;
- inside a harbour (normally shown on the pilotage limit on the chart) you must keep out of the way of any ship over 500 tons (which is about 50 metres in length);
- do not create a wake which causes unnecessary danger to other boats or people;
- you must not anchor in a channel or anywhere that could cause a danger to craft;
- all small craft must keep out of the way of larger vessels which are restricted by the channel;
- stay 200 metres away from tankers, remember you can be fined or prosecuted for breaking rules or bylaws.



## When Power Meets Power



- you must give way to another boat on your starboard (right)



- if you meet head on, both boats must turn to starboard (right)

## When Things Go Wrong!



- if the give way boat does not appear to be giving way, the stand on boat must take action. The stand on boat should turn to starboard (right). If it turned to port it could turn in to the path of the give way boat.

## When Sail Meets Sail



- when the wind is coming from different sides, the boat with the wind on the port (left) side has to give way



- if when both boats have the wind on the same side the windward (upwind) boat has to give way
- special rules may apply between yachts competing in the same race.

## When Power Meets Sail or a Boat being Rowed or Paddled

- the power boat gives way (unless the other boat is overtaking)
- a sailing boat has to give way to a special case power boat, which displays certain lights or day shapes
- sailing boats should avoid sailing in a narrow channel. They have to give way to power boats restricted by the channel.

**Remember, you can be fined or prosecuted for breaking rules or bylaws. Learn the rules they may just save you and your passengers.**

Source: *The Rules of the Road at Sea*, By Mike Scanlan (Coastguard Boating Education)



# **Phonetic Alphabet**

When it is necessary to spell out call signs/ID's or words over the marine radio the correct word spelling should be used to allow clear and effective communication.

Letter	Word	Spoken as:
A	Alpha	AL FAH
B	Bravo	BRAH VOH
C	Charlie	CHAR LEE
D	Delta	DEL TAH
E	Echo	ECK OH
F	Foxtrot	FOKSTROT
G	Golf	GOLF
H	Hotel	HOH TELL
I	India	IN DEE AH
J	Juliett	JEW LEE ETT
K	Kilo	KEY LOH
L	Lima	LEE MAH
M	Mike	MIKE

N	November	NO VEM BER
O	Oscar	OSS CAH
P	Papa	PAH PAH
Q	Quebec	KEH BECK
R	Romeo	ROW ME OH
S	Sierra	SE AIR RAH
T	Tango	TANG GO
U	Uniform	YOU NEE FORM
V	Victor	VIK TAH
W	Whiskey	WISS KEY
X	Xray	ECKS RAY
Y	Yankee	YANG KEY
Z	Zulu	ZOO LOO



# Distress, Urgency and Safety Calls

## Distress Calls

A “mayday” or “distress” call is used to indicate that a vessel, person or aircraft is threatened by grave and imminent danger and requires immediate assistance. eg. Sinking, fire, person overboard or a heart attack

For a distress call always switch your radio to **channel 16** this is the international distress frequency.

### Example of a distress call:

- Mayday, mayday, mayday.
- This is Seabird ZMQ8088, Seabird ZMQ8088, Seabird ZMQ8088
- Mayday, Seabird ZMQ8088
- We in position 36 47.849'S 174 55.643'E in the Motuhie Channel. We have hit a log and are taking on water. Two adults and two children on board. We require immediate assistance.

Wait for a response from either Maritime Radio or Coastguard Radio, they will then start asking for more information from. Assistance will be sent to you as soon as physically possible. All stations calls will also be done to alert any near by vessels to your position.

## Urgency Message

In an Urgency situation, the 'Pan Pan' prefix is used when a boat has a very urgent message to transmit concerning the safety of a ship or person.

Examples of an 'urgency' situation include:

- Loss of propulsion (engine failure or dismasting) or other situations where you are seriously concerned for the safety of your vessel and urgently require assistance- but it is not a life/vessel threatening situation
- You urgently need advice regarding a medical emergency – but it's not a life threatening situation.

### Example of an urgency call:

- PAN PAN, PAN PAN, PAN PAN, All stations, All stations, All stations
- This is Seabird ZMQ8088, Seabird ZMQ8088, Seabird ZMQ8088
- 2 miles east of Quail Island
- We have steering failure
- We require a tow
- 4 people on board
- 2 young children on board
- Over (Listen for acknowledgement)

## Safety messages

For safety messages the prefix is 'Securite, Securite, Securite' (pronounced "Say-cure-e-tay") and is broadcast on Channel 16. If you hear this, listen carefully as a 'navigational' or 'meteorological' warning will follow.

After the safety signal you will normally be directed to a working channel to hear the detailed safety warning information.

### Example of a safety call:

- Securite, Securite, Securite
- All Stations, All Stations, All Stations
- This is
- Maritime Radio Zulu Lima Mike
- For Coastal Navigation Warning No 123 please listen on the appropriate channel for your area, either 25, 67, 68 69 or 71

After hearing this broadcast, change your radio channel to the working channel for your area and listen for (and write down) the detailed warning information.







# ▶▶ Tie The Three Best Knots Using The Same Technique - By Kevin O'Sullivan



The three most useful knots a boatie can know are the Bowline, the Sheet Bend and the Double Sheet Bend. The Bowline forms a secure loop at the end of a line or makes a secure hold to an object. The Sheet Bend is for joining lines of reasonably similar thickness. The Double Sheet Bend is for joining lines of markedly dissimilar thickness. (No mariner EVER uses a reef knot to join lines – perhaps to tie up a parcel but nothing else!)

The beauty of these three knots is that their technical construction is almost identical and a very similar technique can be used to tie all of them. Thus – learn one method and tie the lot. Let us work through the group and tie all three of them in parallel.

## The Bowline



Hold the line in the left hand with the thumb up, and the end of the line coming down from the bottom of the hand. Lay a loop up, and onto, the main line.



Take the end of the line, bring it up through the loop and pass it behind the main line.



Bring the end around behind the main line and back down through the loop. Tighten up and tidy up.



# The Sheet Bend



Hold the thinner of the two lines in the left hand with the thumb up, and the end of the line coming down from the bottom of the hand. Lay a loop up, and onto the main line.



Take the end of the thicker line, bring it up through the loop and pass it behind the first line.



Bring the end around behind the thinner line and back down through the loop. Tighten up and tidy up.

# The Double Sheet Bend



Hold the thinner of the two lines in the left hand with the thumb up, and the end of the line coming down from the bottom of the hand. Lay a loop up, and onto the main line. Now lay a second, identical loop on top of the first.



Take the end of the thicker line, bring it up through both loops and pass it behind the first line.



Bring the end around behind the thinner line and back down through both loops. Tighten up and tidy up.

## Summary

The three knots have very different purposes, but if you learn the simple techniques above, all three are easy to tie and to remember, even when you are under pressure.



# Seamanship and Common Sense

Before you take charge of your first boat, there are some basic rules and legal requirements that are well worth becoming familiar with, if you want to save yourself some stress or inconvenience at best, and perhaps loss of your boat or the lives of your loved ones at worst. Port and Harbour authorities are becoming much more vigilant in the administration of maritime rules, and have given us all a period of grace to develop awareness and familiarisation of the new laws. Now however, we are into the period of enforcement, and they have advised that they are intent on improving safety out on the water. They have also warned that Ignorance of the rules will not be accepted as an excuse and penalties include heavy fines and prison sentences.

## **The two key rules are:**

- a) The skipper (or person in charge) of the boat is responsible for the safety of the boat, safety of all persons on board and for complying with all rules.
- b) It is an offence if you maintain or operate a boat in a way that causes any unnecessary risk or danger to persons or property.

Joining a boating club or Coastguard will put you in touch with other boating people who can help you with important local information; local hazards, windy areas, when rough sea conditions occur and the best places to fish or anchor.

But you will also need to ensure you know the Rules for operating a boat, how to keep your friends and family safe, how to read a chart, where to get a marine weather forecast, and how to handle any unexpected emergencies. This means that you will need to consider attending a course such as Coastguard Dayskipper. Better still, attend a course along with your partner or regular crew. A skipper can always become ill or injured and it is essential to ensure others aboard are competent.

## **YOU MUST KNOW:**

### **The Collision Prevention Rule.**

This outlines the "Rules of the Road at Sea" that apply to all boats.

Who gives way? What navigation lights do I have to have fitted? What does the requirement for 'safe speed' mean? How do I avoid a collision? What must I do in narrow channels? What happens in fog or heavy rain?

All these questions are addressed in the Collision Prevention Rules. If you do not know them can you consider yourself to be a responsible skipper?

### **The Navigation Safety Rule**

Here you will find the rules regarding lifejacket carriage and wearing, speed restrictions, anchoring requirements, age restrictions for boat operators, responsibility for wakes, and many other safety requirements. Navigation Safety Bylaws apply in many areas; they all must state the same requirements as the Navigation Safety Rule.

Once you have the knowledge you are much better placed to enjoy safe, trouble free times aboard your boat.

For more information about these rules, please visit the Maritime Safety Authority Website – [www.msa.govt.nz](http://www.msa.govt.nz)

## **LEARN THESE**

- 1 A power boat gives way to a sailing vessel.
- 2 Two power boats meeting head-on turn to the right to avoid each other.
- 3 Give way to a vessel crossing from your right.
- 4 Every boat that is overtaking, must give way.
- 5 When in narrow channels keep to the right-hand or starboard side.
- 6 Don't anchor in channels or secure to channel markers.



- 7 Do not hamper ships in narrow channels and harbour approaches – they cannot manoeuvre easily in these circumstances.
- 8 If your boat has right of way, maintain your course and speed.
- 9 When giving way, avoid crossing the bows of another vessel.
- 10 Keep well clear of moving ships.
- 11 Know the meaning of buoys and beacons – shapes and colours.
- 12 It is against the law to travel at more than 5 knots within 200 metres of the shore or within 50 metres of other craft or swimmers.
- 13 Tell someone where you are going and when you expect to return.
- 14 Watch the weather and interpret weather signs.
- 15 Join Coastguard and a boating club.



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# Navigation Safety Rules

Legislation is becoming an increasingly important part of any boaters' life. Whilst this legislation is designed to help all of us by making the waters safer, it is sometimes difficult to understand what all the laws actually mean. The following summary was provided by the Maritime Safety Authority to help Coastguard members understand the new safety regulations which came into force on 21 March 2003.

Maritime Rule Part 91: Navigation Safety is a Rule made under the Maritime Transport Act 1994. The Act 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
- Complying with all maritime rules and other regulations and bylaws.

The Navigation Safety Rule sets out a legally binding "code of conduct" for all vessel operators' behaviour. All vessels are also subject to the Collision Prevention Rules which must be read in conjunction with this rule.

## Personal Flotation Devices (PFD)

- It is compulsory for PFDs (often called lifejackets) to be carried on all recreational craft including tenders. They must be worn when being towed and at all times of heightened risk. This may include, for example: rough seas, non-swimmers, alcohol consumption, emergencies and distress.
- A wide range of PFDs is allowed in the rule to suit all types of boating activity.
- The skipper must ensure that a correctly sized serviceable PFD is available for every person on board.
- In some sports and ceremonial events the PFDs may be carried in another boat which stays in the immediate vicinity.
- PFDs must meet the NZ Standard or another similar national standard acceptable to the MSA. Sports teams from other countries may

use their own approved PFDs while in New Zealand

## Age for Operating Power Driven Vessels

- The person operating a power vessel capable of more than 10 knots must be at least 15 years of age. If a person aged 15 or over is supervising and remains within reach of the controls, a younger person may operate the vessel.

## Speed

Without reasonable excuse, no vessels may exceed 5 knots through the water:

- Within 50 metres of another vessel or person in the water
- Within 200 metres of the shore, any structure, or any vessel displaying a dive flag
- While anyone has any part of their body over the bow or sides of a power boat.

## Wake

- Recreational craft must avoid making a wake which can cause unnecessary danger or risk of damage to other vessels, structures or people.

## Water Skiing, Towing and Similar Activities

- Any boat towing a water skier, boat, wake board or similar device at over 5 knots must have a person aged at least 10 to keep a lookout, as well as the skipper. Those being towed must wear a PFD.
- Water skiing and similar activities are not permitted from sunset to sunrise.

## Access Lanes and Reserved Areas

- If an area is being used for its designated purpose, then other persons and craft must leave the area.
- If it is not being used for that designated purpose, then all normal navigation rules apply.



## Anchoring

- All vessels must anchor well clear of wharves and jetties and their approaches.
- Skippers must ensure they anchor so that they do not cause a hazard by swinging into other anchored craft, or by dragging.

## The 500 Ton Rule

- In areas near the approaches to harbours and ports, charts will show where all vessels must keep well clear of ships over 500 tons, even if the ship is overtaking.

## Tankers and Defence Premises

- Whenever possible, vessels are required to stay at least 200 metres away from tankers, ships displaying code flag B (dangerous goods) and defence premises.

## Diving

- Both the skipper and divers on any vessel where diving activities are taking place must display a code flag A that is not less than

600mm in height in a way that it can be clearly seen and identified by any approaching vessel from a distance of at least 200 metres.

## Safe Boating Advisers (SBA)

- The MSA may appoint SBAs to promote safety awareness in small craft.

## Regional Navigation Safety Bylaws

- Regional Council Bylaws are in place in many places around our coast and also inland. Bylaws must not conflict with this Maritime Rule, so there is one consistent set of Navigation Safety Rules throughout all parts of NZ.
- Where bylaws are in place, the Navigation Safety Rule does not apply.
- Councils may appoint Honorary Enforcement Officers to help police their areas.

For the full text of this rule and the Advisory Circular that accompanies it, please refer to the MSA web site [www.msa.govt.nz](http://www.msa.govt.nz).





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