



# **CYCLONE MANAGEMENT PLAN**



BREAKWATER MARINA  
Townsville, North Queensland

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# Introduction

Our idyllic North Queensland lifestyle is enviable but between November and April each year, we're reminded that living in paradise brings an element of risk.

**From 1 November to 30 April, Townsville upgrades its cyclone status to a permanent state of readiness in appreciation of the unpredictable nature of these tropical storms.**

Breakwater Marina is committed to helping residents and boat owners prepare ahead of Cyclone Season in order to minimise damage to property and maintain personal safety.

We have developed our Cyclone Management Plan (CMP) to:

1. Be a useful reference to assist boat owners preparing their boats for the rigours of Tropical Storms
2. To set-out the compulsory measures we expect boat owners to take to mitigate against the dangers that Tropical Storms present,
3. To help you prepare your own Emergency Plan which includes preparing your Emergency Kit and Evacuation Plan
4. To understand the risks of Tropical Storms and Cyclones and how to stay informed during a disaster, and
5. To define the readiness measures and management steps the Marina will take over the course of a Tropical Storm.

Every cyclone that forms is unique depending on the system's life cycle, intensity, movement, size and impact. What is certain is that Cyclones are unpredictable and that the best defense against their destructive forces is to be prepared.

The Bureau of Meteorology monitors cyclones in Australia and rates their strength using a Category System from 1 to 5, where the most severe and destructive cyclones are Category 5 cyclones which can have winds in excess of 280km/h. The Bureau will track the path of cyclones and make predictions about where they may go and how strong they will be.

It is interesting to note that much of the damage associated with tropical storms comes not just from the high winds, but as a result of torrential rain, flooding and storm tides.

**To help get you and your vessel ready for a season in the tropics, and most importantly a cyclone, Breakwater Marina has developed a Cyclone Management Plan (CMP). Our CMP sets out what we require of you to suitably prepare your boat for extreme weather and the measures we take to protect people and property through a cyclone event.**

To help with your preparations, Marina staff conduct detailed Marina-wide audits on both infrastructure and vessel readiness throughout the season and in the lead up to severe weather threats. Our observations will be communicated to you on email and most notably we will make you aware of the important readiness measures not yet taken.

During this time, we are happy to provide assistance to help with your own preparations. If you have any questions or concerns about cyclone season and what to expect from extreme weather conditions, please feel free to discuss them with any member of the Breakwater Marina staff.



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# Getting Ready Early for CYCLONES & STORM TIDES

Experience has proven that in the event of a cyclone passing a marina, the danger can be significantly reduced by early preparation by boat owners.

## IT IS IMPORTANT TO NOTE:

Tropical Storms and Cyclones present all sorts of dangers to people and property so it is vital, when planning and preparing for these emergency events, that your personal safety and the safety of all those close to you is the overriding priority. The most effective approach is getting your preparations started early; there simply isn't the time to run around sourcing equipment and supplies or trying to fix things on your boat when the prevailing conditions have already deteriorated - it's just not safe.

Breakwater Marina uses a 4 stage Cyclone Warning system to instruct all our marina customers on how they should be readying themselves and their boat as a severe weather system approaches. The same warning system defines the actions the Marina will be taking at each stage so boat owners can include those measures in their own planning and be prepared for them.

**Condition RED** is the final stage of Breakwater Marina's Warning System and it's activated when there's an imminent risk of a Cyclone impacting Townsville. On the declaration of Condition Red and in consultation with the District Disaster Management Group, the order for mandatory evacuation of people in all seaside locations may be issued and enforced by the authorities like Police and assisted by Marina Staff.

Under no circumstances are individuals to remain on board small craft when the evacuation order has been given. All retail & commercial operators are similarly required to evacuate when instructed to.

**Across all stages of Breakwater Marina's Cyclone Management, up until the evacuation order is given, Marina staff will do what they can to assist boat owners but it remains your responsibility to ensure your vessel and belongings are as secure as possible.**

Remember, vessels are moored at Breakwater Marina at the Vessel owners risk so if it is your decision to leave your boat in the Marina during a Cyclone, it's imperative you follow this Cyclone Management Plan to ready your vessel and to prioritise your personal safety.

Note, any vessel movements should occur well ahead of a Cyclone Warning (**Condition Blue**) either within or to vacate the Marina, so if it is your intention to take your vessel out of the Marina, you need to do it early.

***Cyclones rarely hit when it's convenient so working progressively through your own Cyclone Preparation Plan is the best approach to avoid a frantic, last minute and potentially dangerous effort to prepare your boat for destructive winds, torrential rain and surging seas.***

# The Most Effective Readiness Steps

The following measures are proven to be the most effective in reducing the risk of injury and damage to you and your vessel in the event of a Cyclone impacting Townsville.

Please see Marina staff if you need further clarification about these terms or techniques or if you'd like a staff member to review your preparations.

## Common Terms Used:

### FURLED & MAIN SAILS

Unsecured main and furlled sails are often teased from their furling or covers to become a huge wind load in severe weather.

Furled sails must either be taken down, or firmly bound to avoid them unraveling. Main sails must be secured in their covers and heavily lashed to prevent them feeding out.

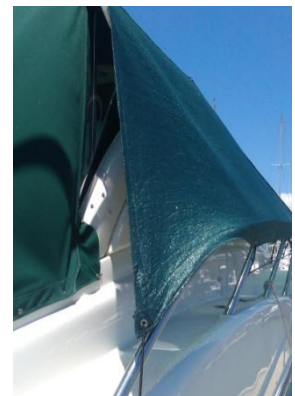


### WIND LOADINGS

Your wind loadings are either fixed structures like your freeboard or flybridge or objects like shade sails, clears, or bimini's.

You limit the risk of damage by reducing the wind loadings by folding, rolling, taping or removing these items entirely.

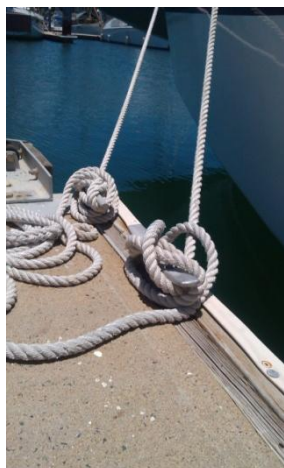
Reducing your wind loadings means you lessen the surface area the wind can catch and lower the strain on your mooring lines, tie-off points and marina pontoons.



### MOORING LINES

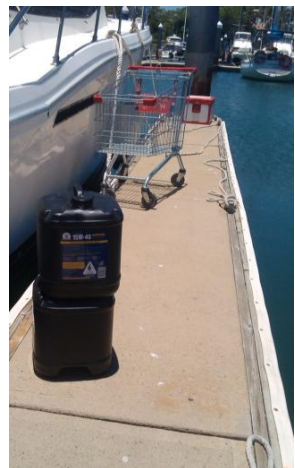
Imperative you start with lines in good condition, fit for purpose and suitably rated to your boat. Doubling mooring lines adds another full set of ropes but also uses alternative tie-off points. These ropes are a back-up in the event one of your preliminary lines fail.

They reduce the risk of your boat moving around excessively or breaking free.



Loose items can include anything that is attached externally to a vessel – jerry cans, access stairs, bikes, trolleys, chairs.

Any item not securely attached or stowed down below can become airborne and be a dangerous projectile in high winds. You can be liable for damage or injury caused by your unsecured equipment which can be an unexpected and significant cost to you.





# Preparing for a Cyclone

**If you have a Berth Agreement with Breakwater Marina between 1 November and 30 April, it is requisite to your mooring that you comply with these measures to best protect your boat and those boats around yours from damage.**

**Experience has proven that in the event of a cyclone passing a Marina, the danger can be significantly reduced by early preparation by boat owners.**

- 1) Check the Condition of your Boat** – the absolute first thing to do at the very start of Cyclone Season is to run a full vessel check of all systems, equipment, the hull and super-structure so you and your family understand what preparations will be necessary and that you have the resources and time to fix, upgrade and stow away everything in readiness for severe weather.
- 2) Your own Cyclone Emergency Plan** – set-out a checklist of all the measures you need to attend to that gets your boat ready to withstand the intense wind and rain, and that ensures you are evacuated and well out of harms way when the inevitable severe weather hits. Don't wait til there's an approaching storm to start this.
  - 2a) Prepare a Cyclone Emergency Kit** – This Kit should contain the provisions you need for your essential needs in the event of an emergency; whether you're sheltering in place or evacuating. The Kit should include your personal identification, important documents and medications with enough clothes and supplies ready for evacuation. Make sure your vessel and personal insurances are adequate and current.
  - 2b) Prepare a Cyclone Evacuation Plan** for you and your family – know your nearest safe high ground and the safest access to it in the event of storm surge. Take into account the special needs of infants, the elderly and disabled..... and don't forget your pets.
  - 2c) Check your neighbours are prepared**, and check your emergency contact details are current with the Marina office. Refer to Townsville's Local Disaster Management Group page for locations of shelters and evacuation centres.
- 3) Mooring Lines** – Having plenty of rope, in good condition, that's fit for purpose and suitably rated for your vessel is the best and cheapest defence you have to minimise the risk of damage to your boat in the event of a Tropical Storm
  - 3a) Check your ropes** – Tropical Storms and Cyclones bring strong winds, high peak gusts, variable wind directions and surges all of which place higher loads on your ropes, increasing the risk of them breaking. Ropes deteriorate in UV and the loss of strength can be unnoticeable until they're subject to stress. Check the condition of your mooring ropes and make sure they're fit for purpose and load rated to suit your vessel.

**3b) Man-made synthetic fibres** such as polyethylene, polypropylene and polyester deteriorate in sunlight. Polyester has the greatest resistance to UV degradation, but all will deteriorate over 1 to 3 years. The deterioration is not gradual, but occurs very rapidly once the UV damage commences.

**3c) Updating your ropes** is your cheapest and most effective defence to minimising damage to your boat. Using proper mooring rope and having plenty of it is proven to be effective in keeping your vessel secure in its berth.

**3d)** Tropical Storms and Cyclones produce **intense winds** that place enormous loads on your mooring lines, causing them to stretch. In preparation for this, adjust the position of your boat in its berth and run multiple spring lines so the vessels doesn't ride up onto the floating pontoons and run the risk of being holed or damaging the pontoons.

**3e)** Deploy as many **FENDERS** around your boat as you can to keep your boat from rubbing heavily on the pontoons and away from neighbouring vessels. keep them low to the water to lessen the chance of them riding up on top of the pontoons.

**3f) DO NOT** use chains to secure your boat. Chains have no ability to stretch, where ropes have a certain amount of give.

**3g) DO NOT** hook anchors or anchor chain to walkways or pylons. Anchors may be lowered in the Marina berth to the sea bottom. Ensure there is enough slack for the rise and fall of the vessel due to tide and swells.

**3h) DO NOT** rope your vessel to marina pylons or the pylon brackets as this can jam the rollers and critically damage the pontoons. Similarly, don't rope to marina pedestals or fire fighting equipment. If you have few dedicated tie-off points onboard then use secure elements like winches, mast stays, the base of the mast, top deck supports and davit frames.

- 4) DOUBLE YOUR NUMBER OF MOORING LINES** – run a full set of additional ropes as a back-up to your standard set. These duplicate ropes should use alternate tie-off points so in the event there's a cleat or line failure, your boat will sit securely at your berth. The strongest recommendation is to run as many lines as possible so the loads are effectively distributed and that includes lines from the side of your boat that is not dockside. Where cyclone rings are available, make use of them.
- 5) REDUCE WIND LOADINGS** to a minimum. Any surface that catches wind adds further load to your mooring lines, tie-off points and the pontoons. Remove all canopies and covers, and deck gear including lifebuoys, etc and store them below.
- 6) YOUR SAILS** – remove or heavily lash down all furled sails, Main Sails and covers. If removing your sails is not possible, double wrap or lash these components in such a way that the wind cannot tease the ends out which increases the wind loading and the stress on your mooring lines
- 7) STOW ALL LOOSE GEAR** boat hooks, buckets, fishing gear, life rings, boarding steps, jerry cans, inflatable dinghies and bicycles are examples of items that often become airborne in severe weather. If you can't stow your gear below deck then make sure it is securely



fastened on deck or in your cockpit. Your equipment is not permitted to stay on the pontoons.

- 8) SECURE YOUR TENDER** - Dinghies may stay on deck, on your davits or in the water but they must be securely fastened so they don't become an airborne projectile. It's advised that outboard engines are removed and stowed below deck. Where dinghies remain on deck or on davits, add extra ropes to secure them in place, remove bungs and tilt them so they drain.
- 9)** Ensure all **SELF DRAINAGE** openings are clear and will remain that way so the torrential rain can drain off your boat quickly and doesn't pool.
- 10) CLOSE HATCHES & STOP LEAKS** - any deck openings like hatches, vents, windows and doors are sealed and any known leaks are stopped.
- 11) BILGE PUMPS** - Check that all pumps are operational and are switched to automatic when you leave your vessel. Importantly, check you have **no pollutants** in your bilge that could be discharged in to the Marina.
- 12) SHORE POWER** and make sure you use an outdoor approved lead with a waterproof skirt. When a Cyclone Condition Red is issued, you will be required to disconnect all shore power, water and gas lines and turn off your on-board appliances. Remember, to prepare early for the Marina to isolate power so make sure your batteries are charged.
- 13)** When a **CYCLONE WARNING (CONDITION BLUE)** is issued for the Townsville area, all persons boarding or leaving their vessel must notify the Marina Office of their movements.
- 14) EVACUATION** – As an intensifying weather system approaches, voluntary evacuation to shelter is best done during **CYCLONE WATCH (CONDITION YELLOW)** or at the latest during **CYCLONE WARNING (CONDITION BLUE)**. Gather your Emergency Kit, loved ones and pets and leave early before conditions become dangerous. The order may be issued to evacuate all persons from the Marina during **CYCLONE STRIKE (CONDITION RED)**. The order to vacate is mandatory.
- 15) REGISTER, FIND, REUNITE** – If you're self-evacuating and will not be staying within an identified shelter, register your location via the 'Register | Find | Reunite' system available on the Australian Red Cross website.
- 16) MOVING YOUR VESSEL** - any vessels wishing to leave Breakwater Marina to seek shelter at other locations must do so before conditions deteriorate, as the Townsville Port Authority may close the Marina to all traffic. You are reminded that severe conditions bring rough seas, wind and torrential rain and these make manoeuvring your vessel dangerous.
- 17) VESSELS ON AIR DOCKS** - All vessels on airdocks must be lowered into the water to reduce wind loadings on **CYCLONE WATCH (CONDITION YELLOW)**. Mooring ropes will need to be added to both the submerged air dock and the boat to secure them to the marina pontoon.
- 18) LOOK AFTER YOUR PETS** – where possible, keep your pets with you so you can comfort them but in the event evacuation from the Marina is necessary, you will need to have considered 'pet friendly' places to seek shelter. If you plan on using kennels, vets or friends places then remember to book early and get them there before travel becomes dangerous.

# STAYING INFORMED DURING A DISASTER

In the lead up to, during and in recovery of a Tropical Storm or Cyclone, the conditions continuously change, as does the threat to life and property. Gale force winds, intense rain, flooding and storm tide are expected in severe weather events and they can cause localised responses like power outages, road closures, phone reception and internet connection problems and contamination of drinking water for example.

The strongest advice is to **stay informed** so monitor the following sources so you can make informed decisions.

## Weather Monitoring & Forecasts

- The [Bureau of Meteorology](#) will have a dedicated Cyclone Warning page on their website with maps tracking and predicting the path and impact areas.
- Weather Apps like [Cyclone Chasers](#), [Willy Weather](#), [Windy](#), [Seabreeze](#) are useful sources
- Radio, including the North Queensland [ABC](#) and all local FM stations will make regular broadcasts
- All the free to air TV channels post regular announcement and they become more regular as the threat intensifies.
- The [Volunteer Marine Rescue](#) will make announcements on VHF 16.

## For Local Impacts & Disaster Management

- Breakwater Marina will post updates via email and on their [Facebook Page](#) as regularly as is practicable including changes to the Marina's Warning System and marina specific functions as the threat intensifies.
- The local Disaster Management Group run by the [Townsville City Council](#) is the official local source of information. Monitor their website on [disaster.townsville.qld.gov.au](https://disaster.townsville.qld.gov.au) or Facebook Page at [Townsville Disaster Information](#). The Emergency Dashboard is a quick reference to all Emergency News, Weather Warnings, Road Conditions and Power Outages.
- **Listen out** for the Standard Emergency Warning Signal (SEWS) which is used at the beginning of all serious warnings. You'll hear it ahead of emergency broadcasts on TV and Radio.
- **Listen out** for voice mail messages or text messages to your mobile from Australia's national Emergency Alert.
- **Emergency service personnel** may come by in person to pass on warnings.

# Tying Up Your Monohull

As described earlier in this Cyclone Management Plan, the absolute starting point to lessening the risk of damage to your boat in a Tropical Storm or Cyclone is to use purpose made mooring lines that are in good condition and rated to your boat. The objective, when tying your boat up to survive severe weather, is to limit the amount of movement your boat has in its berth and to add lines to better distribute the higher loads of the intense winds, knowing also your ropes will stretch under load.

For the majority of the year, when winds are fair, a single set of mooring ropes is sufficient to keep your boat secure at its berth. A set of mooring lines includes a bow line, forward and aft springs and a stern line.

In Cyclone Season, doubling your mooring lines is requisite to the best chance of avoiding damage to your boat in severe weather. Doubling your lines means running a full second set of mooring lines and using alternate tie-off points to your preliminary set. This second set of ropes is a back-up to retain your boat in its berth in the event a preliminary rope fails or a tie-off point fails.

In principle, the more ropes you're able to run, the better you distribute the forces of the intense winds. We recommend also that you make use of the cyclone rings where they're available and run additional lines from the side of your boat which isn't dockside.

It is vital however that ropes do not:

- ✗ Run across adjacent berths without the express permission of Marina Management,
- ✗ Run across marina thoroughfares because they introduce a trip and fall hazard, or
- ✗ Impact or obstruct other vessels.

There are some further important measures to avoid when tying up for severe weather:

- ✗ Do not use chains because they have no give
- ✗ Do not rope or chain to Marina pylons, to marina pedestals or fire fighting equipment.



# Tying Up Your Multihull

Multi-hull vessels often occupy T-Heads (end of fingers) because of the width of the vessels and the berths are easy to come alongside. In severe weather, the T-Head berths are often quite exposed to the prevailing winds and rough water so it's recommended that owners have as part of their own Cyclone Emergency Plan, a measure to discuss with Marina Management the prospect of temporarily relocating off the T-Head berth.

**We encourage Multihull owners to discuss their options with Marina Management early to ensure an emergency plan is in place.**

As described earlier in this Cyclone Management Plan, the condition and type of mooring rope you use and the manner in which you fasten the boat to the pontoons is vitally important to lessening the risk of damage to your boat in severe weather. The objective, when tying your boat up in Cyclone Season, is to limit the amount of movement your boat has in its berth and to add lines to better distribute the higher loads of severe weather, knowing your ropes will stretch under load.

In difference to the majority of the year, when winds are fair and a single set of mooring ropes is sufficient it is crucial that you **Double** your mooring lines in the event of severe weather. Doubling your lines means running a full second set of mooring lines and using alternate tie-off points to your preliminary set. This second set of ropes is a back-up to retain your boat in its berth in the event a preliminary rope fails or a tie-off point fails.

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There are some further important measures to avoid when tying up for severe weather:

- ✗ Do not use chains because they have no give
- ✗ Do not rope or chain to Marina pylons, to marina pedestals or fire fighting equipment.



# AVOID THESE To Avoid Disaster

**Experience has proven that in the event of a Cyclone passing a Marina, the danger can be significantly reduced by early preparation by boat owners.**

In this Plan, we've provided a number of common-sense solutions to reducing the risk of damage to your vessel during a severe weather event and the most effective measures are:

- ✓ Using ropes that are in good condition and doubling your number of mooring lines
- ✓ Reducing your wind loadings like shade covers, sails, clears and Biminis
- ✓ Sealing openings in to your boat like windows and hatches and ensuring your decks can drain quickly
- ✓ Stowing or securing all loose equipment

In spite of having good intentions, there are some common measures to avoid so as not to worsen an already demanding situation.

- ✗ **DO NOT** store any drums, containers or chains on walkways. Items like boarding steps, bicycles, trolleys and lockers are to be secured on board your vessel
- ✗ **DO NOT** store Dinghies on the Marina pontoons. They are to be either deflated and stowed below deck where possible, secured to the deck, fastened to davits with extra lashings back to the boat or in the water. Dinghies that are not properly secured often become airborne and can cause considerable damage to other boats, cause injuries or inevitably sink.
- ✗ **DO NOT** run mooring lines across vacant or occupied berths without the express permission of Marina Management. It is central to the Marina's Emergency Management that we have discretion to relocate or provide refuge to protect boats so make sure you ask before running ropes across berths.
- ✗ **DO NOT** tie ropes to other vessels without the owner's consent.
- ✗ **DO NOT** attach any ropes or chains to pedestals, around pontoons, to pylons or pylon brackets or to Fire fighting equipment.
- ✗ **DO NOT** tie ropes or chains across marina walkways – it creates trip over hazards.
- ✗ **DO NOT** let your vessel 'ride up' on to pontoons as it may critically damage it and lead to severely weakening the marina structure.

**The last and most important point is DO NOT leave your preparations for severe weather until the last minute. Have you considered...**



- How long will it take to prepare your boat?
- What happens if you are not able to get to your boat?
- Does your emergency contact know how to get your boat ready?

# How to Tie off

## A few points to start with:

Before getting this right, make sure you check the condition of your ropes, they're designed for mooring and they're rated for the weight of your boat.

Remember, your ropes will gradually deteriorate in the sun and as they do, they lose their strength.

To test if your ropes have deteriorated, run your hand down the rope and if fibres come off in your hand then they're about due for replacement.



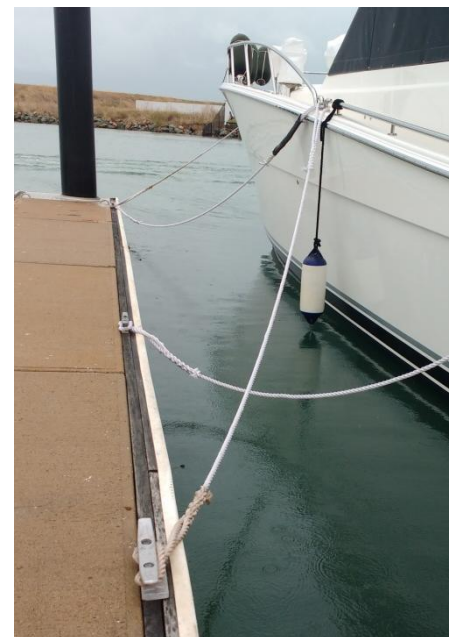
**In Tropical Storms and Cyclones, winds can be intense, have high peak gusts and can change direction as the storm passes. These conditions place incredible stress on your boat, your mooring ropes, your tie-off points and the marina pontoons. These conditions will make your boat move around in its berth, often heel over and your ropes will stretch.**

When tying your boat up for severe weather, you want to limit the stresses on your boat and your lines so it's vital you do everything you can to reduce the surface area of your boat that can catch wind.

Having done that, at a minimum, double up the number of mooring lines you're using, making sure your second full set of lines use alternate tie-off points.

Position the boat in the berth and run your 2 sets of lines with the objective that, during severe weather, the boat sits securely in its berth and isn't at risk of riding up on to the pontoons.

Where they're available, make use of the cyclone mooring rings and each of the cleats at your berth. The more tie downs points you use, the better you distribute the loadings for your vessel.



***TIP – DO NOT use one long continuous length of rope to tie your boat down from bow to stern. Use individual lines to run between your tie-off points on your boat and on the pontoon.***

**A standard mooring set will have a minimum of 4 individual ropes – bow, forward spring, aft spring and stern lines.**

While there are various ways to tie-off, the method outlined below is straightforward and easy to learn.

The part of the line which is not attached to your vessel is referred to as the 'bitter end'.



**1:** Using the bitter end, begin by wrapping the line from your vessel around base of the cleat and back over the right side of the cleat, as shown.



**2:** Now bring the line under and around the left side of the cleat to create a figure 8. Then make a loop, ensuring the bitter end runs underneath the loop, as shown.



**3:** Place the loop over the right horn and pull tight – it's called a "hitch". Make another loop, as above over the left side, ensuring the bitter end runs underneath the loop.



**4:** Place the loop over the left horn and pull firmly to fasten. Your line is now securely attached to the cleat.





✓ Check the condition of your lines regularly.

✓ Limit windage on your vessel to avoid stressing lines.

✓ Double up lines and use cyclone rings where available.

✓ The more tie downs points you use, the better you distribute the loadings for your vessel.





# Your Personal Cyclone Emergency Plan

Early preparation is the best way to survive Tropical Storms and Cyclones but to do that, you need to understand the risks and know what you will do as the threat of these destructive storms intensify.

**Preparing in advance saves time and reduces the number of things you have to do when a disaster is about to strike.**



Your Emergency Plan should address everything that's important to you with measures set-out to protect them and to survive with the least amount of harm. Preparing your actions in respect to your boat, your home, your loved ones, your pets and your car is crucial and making those relevant plans available to your family members and other interested parties like Marina Management is essential.

Central to your Personal Emergency Plan is getting an Emergency Kit prepared and having an Evacuation Plan worked out. Your Emergency Kit is a grab and go of essential supplies, documents and spares you can use if you need to survive for a few days without being able to return home. Your Evacuation Plan considers where you will retreat to in the event you ride out the storm away from the Marina and considers how you will get there and when you will leave.



## BOATS

- Prepare them to withstand severe weather by adding extra ropes, reducing wind loadings, securing all loose items, check your bilges are working and on automatic and being without power.
- Provide your Personal Emergency Plan to Marina Management with particular reference to when you've finished locking your boat down and where you intend on riding the storm out.



## HOME

- Check your home insurance is current, covers you for natural disasters and the amount insured is adequate
- Clean up your yard, clean your gutters, trim overhanging branches, fix and secure loose items and fittings
- Check your roof conditions, your windows and doors seal properly



## PETS

- Make sure your pets have identification on them
- Decide if you're going to put them in a shelter or boarding house or you're going to keep them with you
- If you need to evacuate, have their leads, food and medications ready



## CARS

- Ensure your insurance is current and it covers your asset adequately
- Fuel up the tank
- Attempt to park your vehicle under cover, away from trees, power lines, waterways and low lying areas.

# Your Emergency Kit

An Emergency Kit stocked and ready to go is recommended to be prepared at the beginning of Cyclone Season.

Use this checklist as a Guide to help you pack or check your Emergency Kit and to prepare your Evacuation Plan.



## Water

- ☐ Drinking Water in plastic containers - at least three days supply; minimum 5L of water per day per person

## Food

- ☐ Minimum three day supply of food
- ☐ Cooking/preparing facilities Ready to eat canned/dry goods
- ☐ Canned juices, milk or soups
- ☐ Dry Staples - *sugar, pepper, salt and high energy foods such as peanut butter, honey, jams, biscuits and muesli bars*
- ☐ Essential medications/Vitamins
- ☐ Food for elderly persons, babies, children, elderly or dietary requirements
- ☐ Comfort foods & snacks such as biscuits, lollies, cereals, tea/coffee

## Tools and supplies

- ☐ Plates, bowls, cups, utensils Battery operated radio
- ☐ Battery operated torches
- ☐ Spare batteries
- ☐ Sharp knife or box cutter knife
- ☐ Toilet paper / soap/ detergent
- ☐ Personal hygiene items
- ☐ Duct tape and masking tape
- ☐ Matches in waterproof container
- ☐ Disinfectant/hand sanitiser
- ☐ Mobile phone and charger
- ☐ Insect repellent + sunscreen
- ☐ Basic Tools for temporary repairs
- ☐ Rope/chains for securing outdoor items
- ☐ Extension cords and power boards
- ☐ Plastic sheeting or tarps

## First Aid Kit

- ☐ Check thoroughly, & replace any used or expired contents

## Clothing and bedding

- ☐ At least one complete change of clothing & footwear per person
- ☐ Long sleeve shirts and trousers
- ☐ Sturdy shoes, Hats and work gloves
- ☐ Rain gear/gumboots
- ☐ Blankets, sleeping bags, pillows
- ☐ Sunglasses

## Special Items

- ☐ Baby needs such as nappies and bottles
- ☐ Medications and prescriptions
- ☐ Contact lenses or prescription glasses
- ☐ Games, books & puzzles for entertainment
- ☐ Esky and ice
- ☐ Cash on hand to last one week
- ☐ Fuel in your car
- ☐ Gas bottles filled
- ☐ Batteries are full (check torches)

**In a waterproof container**

- ☐ Will and insurance policies
- ☐ Passports and immunisation records
- ☐ Bank account and credit card numbers
- ☐ Inventory of household contents • Important phone numbers
- ☐ Family records -birth/marriage certificates\*
- ☐ Pet food and supplies

***\*Consider transferring copies of important documents and precious family memories onto a USB stick or portable Hard Drive and seal in a waterproof container.***

# Your Evacuation Plan

An Evacuation Plan helps outline what may need to happen in the case of an extreme emergency. Fill out the details below and keep this document with your Cyclone Emergency kit and forward a copy to Marina Management.

Have it in mind that Tropical Storms and Cyclones can be destructive and bring intense winds, torrential rain, storm tide and flooding. Breakwater Marina is naturally in a High Risk area given its coastal location so the best recommendation is to voluntarily evacuate from the Marina as early as is practicable so you're not moving around when conditions are already dangerous.

**In the event of a Mandatory Evacuation, I plan to:**

---

---

---

---

**This is located at:**

---

**I have Pets and I will be:**

---

**I will be with:**

---

---

**I plan to take my vehicle from site or....**

---

---

**I plan to take my boat out of the Marina and go....**

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**Other information Marina Management need to know:**

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# Your Emergency Contacts

An Emergency Contact list helps keep important contact details close in the case of extreme emergency. Fill out the below details and keep this document with your Cyclone Emergency kit.

It is advised to also take this document to the Marina office so staff can keep a copy on your agreement files.

**Vessel Name:** \_\_\_\_\_

**Owners Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**Contact:** Phone 1 # \_\_\_\_\_ Name: \_\_\_\_\_

**Contact:** Phone 2 # \_\_\_\_\_ Name: \_\_\_\_\_

## **NEXT OF KIN** *\*Emergency Contact details of persons NOT ONBOARD BOAT (Family/Friends) but can get in contact with you*

**Name:** \_\_\_\_\_

**Contact Number:** Phone # \_\_\_\_\_ Relationship: \_\_\_\_\_

**Name:** \_\_\_\_\_

**Contact Number:** Phone # \_\_\_\_\_ Relationship: \_\_\_\_\_

## **BOAT EMERGENCY** *\*AUTHORISED CONTACTS FOR BOAT (People who are able to make decisions or enable movements regarding the boat on your behalf if you are unable or unavailable)*

**Name:** \_\_\_\_\_

**Contact Number:** Phone # \_\_\_\_\_ Relationship: \_\_\_\_\_

**Name:** \_\_\_\_\_

**Contact Number:** Phone # \_\_\_\_\_ Relationship: \_\_\_\_\_



# Evacuation Centres

The decision to prepare and open buildings as a Place of Refuge, Cyclone Shelter and Evacuation Centre is made by the Local Disaster Management Group and will be broadcast to the community via local media. You should listen to radio or contact council for the location of buildings which are designated for this use during an event.

Voluntary evacuation notices and mandatory evacuation notices can be issued by the District Disaster Coordinator and the Local Disaster Management Group.

## Evacuation Centres

During a disaster, information about evacuations, cyclone shelters and evacuation centres will be broadcast to the community via local ABC radio broadcasts and other media. If an evacuation is called in your area you will find out more from:

- Local radio ABC AM and any of the local FM radio stations
- Emergency Alert phone warnings
- TV when you hear the emergency warning signal
- Local council Emergency Management Dashboard: find Emergency Contacts & Resources for Preparing, During and After a Disaster
- Face to face patrols and door knocking by emergency services.

## Finding an Evacuation Centre

If you're in an area that may be evacuated be aware of the weather and local warnings, and check with your local council for advice before an evacuation is called. Ideally, if you think evacuation is likely you should make arrangements to evacuate early to the homes of family or friends in safer areas.

Evacuation centres are generally only intended for short term stays, and may be crowded and less comfortable. Some councils have detailed plans and maps to help in times of evacuation.

### **VOLUNTARY EVACUATION IS ENCOURAGED**

Once a Cyclone **Watch Yellow** or **Warning Blue** is declared, shelter can be found by contacting the Local Government Disaster Co-ordination Centre.

### **MANDATORY EVACUATION**

When a **Cyclone Strike (Condition Red)** is declared, Breakwater Marina Staff will instruct all persons in the marina to vacate to a safe haven per their own safety plan.

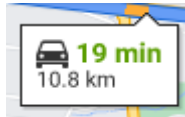
**Refer to the evacuation maps posted on our noticeboards or check the Townsville City Council website for further information.**

***If you are asked to evacuate it is because there is a real DANGER.***

## Shelters, Evacuation Centres & Designated Places of Refuge

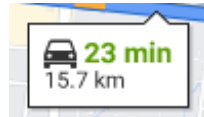
These facilities are provided by Townsville City Council to house people temporarily if a category 3 or greater cyclone, storm tide or major flooding were to impact a Townsville local government area. They have limited capacity and will be used to accommodate as many people as possible. This means that there will be limited space.

### **Heatley Shelter** **Secondary College Hall** **321 Fulham Rd, Heatley**



*Distance From  
Breakwater Marina*

### **Northshore Shelter** **Community Centre** **Iris Lane, North Shore Burdell**



*Distance From  
Breakwater Marina*

*You need to be aware of the following limitations:*

- **Domestic pets and other animals will not be allowed in the Shelter (with the exception of Assistance Animals)** - make arrangements prior to the cyclone season for sheltering your pets.
- **You will be allocated a limited space;** you won't be able to lie or sit on a mattress or stretcher (there is not enough space, do not bring large, bulky items)
- **All personal belongings are to be kept in a backpack or small bag.** You will need to be self-sufficient and support yourself and your family for the duration of the shelter period, so you need to include personal medications, essential non-perishable food and refreshments, identification papers and essential personal items. Any items deemed oversized and / or unnecessary will not be permitted into the shelter;
- **There are no cooking facilities, limited bathroom facilities, and limited medical support;**
- **There will be limited transport** and very limited parking options; and
- **When using a Public Shelter: You may be in the facility for up to 18 hours or more.** During this time the building will be "locked down" for a period when the cyclone is passing. To ensure the structural integrity of the building and the safety of occupants during this time, there will be no ability to enter OR leave the shelter at all during these times.



# Cyclone Warning Stages

The Bureau of Meteorology monitors cyclones in Australia and rates their strength using a Category System from 1 to 5, where the most severe and destructive cyclones are Category 5 cyclones and winds can be in excess of 280km/h.

The Bureau of Meteorology will activate a public warning system prior to a cyclone forming and will monitor the system as it develops, tracking its path and intensity and forecasting its predicted track and strength. The Tropical Cyclone Warning Centre will liaise with the Townsville Disaster Management Group and all relevant emergency services to ensure the public remains informed.

The following Cyclone Warning System is used by Breakwater Marina to identify the stages of a cyclone that may threaten life or property in Townsville.

***IMPORTANT: The readiness steps in each stage of warning are obligatory for all Marina Customers to follow; not only as a Condition of your mooring agreement but to greatly lessen the risk of vessels breaking loose and causing extensive damage.***



TOWNSVILLE & SURROUNDS has a **Disaster Management Group** made up of local councillors and representatives of key emergency services.

VISIT WEBPAGE:



<http://disaster.townsville.qld.gov.au/>

The Group Coordinates all relevant resources to prepare locally and respond appropriately.



Cyclone Updates are broadcast on all free to air TV Channels as a cyclone approaches and on all mainstream radio channels.



[Townsville VTS](#) (Vessel Traffic Service) will send warning updates on VHF Channel 16.



Social Media (Facebook) can also provide regular updates – you can search and 'like' to join pages such as [Townsville City Council](#), [Disaster Management Queensland](#), [Bureau of Meteorology](#) etc.





CONDITION GREEN

## CYCLONE OUTLOOK

A normal state of readiness:

**EARLY PREPARATION IS KEY!**

CONDITION YELLOW

## CYCLONE WATCH

An intensifying risk of a cyclone or severe weather in the watch area within 48 hours.

**CONTINUE YOUR PREPARATIONS**

CONDITION BLUE

## CYCLONE WARNING

A cyclone strike or extreme weather in the watch area within 24 hours.

**CONCLUDE YOUR PREPARATIONS  
BE READY TO EVACUATE**

CONDITION RED

## CYCLONE STRIKE WARNING

A cyclone strike or extreme weather is imminent

**LISTEN FOR UPDATES, EVACUATE**

# CYCLONE OUTLOOK – CONDITION GREEN

**Comes into effect on 1 November and is active to 30 April.**

In Condition Green, it's all about Preparation and being ready for a severe weather event by taking the appropriate steps to reduce the danger and impact. Remember, cyclones rarely hit when it's convenient so working progressively through your own Cyclone Emergency Plan is the best approach to avoid a frantic, last minute and potentially dangerous effort to prepare your boat for destructive winds, torrential rain and surging seas.

1. **Check the Condition of your Boat** – run a full vessel check of all systems, equipment, the hull and super-structure so you and your family understand what preparations will be necessary and that you have the resources and time to fix, upgrade and stow away everything in readiness for severe weather.
2. **Your own Cyclone Emergency Plan** – set-out a checklist of all the measures you need to attend to that gets your boat ready to withstand the intense wind and rain, and that ensures you are ready to evacuate well out of harms way when the inevitable severe weather hits.

## YOUR PREPARATIONS INCLUDE:

- ☐ **Prepare Your Emergency Kit** - these are your essential needs in the event of an emergency, whether you shelter on board or you evacuate. It's food and water, important documents, medication, first aid kit, spare clothes, mobile phone and charger.
- ☐ **Prepare Your Evacuation Plan** - intense winds, torrential rain, tidal surge and flooding can render the Marina unsafe to stay. Know where you're going to go to seek shelter and how you're going to get there. Voluntary Evacuation is recommended so you leave early before conditions become dangerous.
- ☐ **Check Mooring Lines** – frayed and chaffed lines, lines that are too small, lines that are not fit for purpose must be replaced. Ensure you have plenty of spare rope.
- ☐ **Double up your Ropes** - Replace lines that are deteriorated. Run 2 complete sets of mooring lines using alternate tie-off points and cyclone rings where available
- ☐ **Check Starter and House Batteries** – ensure they're charged because power may be switched off. Check alternate charging sources like your generator, wind and solar are working.
- ☐ **Bilges** – are clean and all pumps are working on auto and manual.
- ☐ **Reduce wind loadings** – securely lash all sails, take down shade sails and covers.
- ☐ **Clear drains** in cockpit and on deck – so torrential rain can escape quickly
- ☐ **Fill your fuel tanks**, water tanks and gas bottles – so you can be self sufficient
- ☐ **Secure all Loose Items** – stow as much gear below deck as possible, fasten all equipment down and be prepared to remove all items from pontoons.
- ☐ **Check all openings** in to your boat are sealed, repair all known leaks.

**NOTE: It is mandatory that vessel owners comply with the Marina's instructions to ready their vessels early.**

**Marina staff will inspect vessel preparations regularly and communicate with owners to help bring them up to standard.**

**Non-compliance will require the correction to be undertaken by the Marina at the vessel owners cost.**

## **Breakwater Marina Staff will:**

- Undertake a review of our Cyclone Management Plan and make any relevant changes and updates so its ready and available for use in the event of a severe weather event.
- Circulate correspondence to all Marina Customers concerning Cyclone Season and what to expect in the event of a cyclone event. This is a reminder also that it is mandatory for boat owners with a mooring agreement with Breakwater Marina between 1 November and 30 April to comply with the conditions of the Cyclone Management Plan and starting those readiness measures early.
- Circulate targeted correspondence to the various types of marina customers we have so that we're best positioned to provide assistance where it's needed most. We'll message our owners who don't live locally, our marina residents, our local owners, our owners with mobility and health deficiencies and our owners with boats on air docks.
- Undertake routine and regular Vessel Audits of all vessels in the Breakwater Marina checking for readiness for the impacts of Tropical Storms and Cyclones.
- Following the Vessel Audit, Marina staff will contact all Vessel owners that need to further prepare their vessels to comply with the CMP and to be ready for severe weather.
- Marina staff will undertake extensive Marina condition inspections and facilitate maintenance to prepare the infrastructure for the demands of Tropical Storms and Cyclones.
- Marina staff will inspect the marina grounds and stow away all loose items.

# A CYCLONE WATCH – CONDITION YELLOW

**Breakwater Marina will move to Cyclone Watch condition when there is an intensifying risk of a cyclone or associated weather storm, impacting the Townsville region. Cyclone Watch reports are issued at 6 hourly intervals. If you intend on taking your boat out of the Marina, you must do it now before conditions become too unsafe to do so.**

There is a growing risk the cyclone or weather system may impact Townsville and in spite of that risk not being assured, it is vital boat owners make use of this time to advance their preparations before conditions deteriorate and become dangerous.

## **If the Vessel is staying in the Marina, your preparations Include:**

- ☐ Finalise your Evacuation Plan, ready your Emergency Kit, fuel up your car
- ☐ **Vessels on Airdocks** must be lowered into the water. Make sure you add ropes to the dock and your boat back to the pontoons so they stay retained in your berth.
- ☐ Your **Mooring Lines** will have been replaced as needed so Double the number of lines in use. Add a second full set of mooring lines and use alternate tie-off points, remembering to reset the position of your boat so it won't ride up on the pontoons when your ropes are at full stretch.
- ☐ **Reduce all wind loadings**, with particular attention to removing or heavily lashing furlled sails and closing main sail bags and lashing them shut. Take down tarps, covers and biminis.
- ☐ **Secure Your Tender** - Deflate and stow inflatable dinghy below, otherwise secure them on deck or on davits with extra ropes ensuring bungs are removed and water can drain out. Dinghies may be put in the water as long as they're secured to the pontoons.
- ☐ **Shore Power** - Make preparations to disconnect your shore power and to turn off all on board appliances. Prepare to shut off gas cylinders and gas powered appliances.
- ☐ Ready spare **Fenders** all around your boat
- ☐ **Check Batteries** are charged all bilge pumps and your generator are working and your alternative charge sources like wind and solar are working.
- ☐ **Close all your Openings** in to the boat like windows, hatches and lockers. Make sure all known leaks are sealed and all deck drains are clear...
- ☐ Owners of **Multi-hull Vessels** to discuss the prospect of temporary berth relocations off T-Heads with Marina Management



## Breakwater Marina Staff will:

- Update the Cyclone condition status from Green Outlook to Yellow Watch in each of the Pier notice boards, post updates from the Bureau of Metrology's predicted cyclone path at the Marina office and Laundry window.
- Issue updated cyclone condition status info to all Marina Tenants on email with a reminder to progress personal and vessel readiness measures in compliance with Condition Watch status.
- Follow-up with vessel owners who received notice from the Marina concerning their inadequate progress to ready their boats for the prospect of severe weather.
- Marina staff will assist as many customers as possible with their vessel preparations; priority will be given to those customers who had been previously identified as aged, unwell or physically restricted.
- Remove or stowaway all loose items on pontoons & around the Marina grounds.
- Contact airdock owners to lower their vessels into the water and make sure the submerged docks and boats are properly secured to the pontoons.
- Marina staff will continue to undertake extensive Marina condition inspections and facilitate maintenance to prepare the infrastructure for the demands of Tropical Storms and Cyclones.
- Administration staff to prepare the Marina Office for evacuation which includes backing up all data, filing all paperwork and raising sensitive electrical equipment off the floor.

# A CYCLONE WARNING – CONDITION BLUE

Breakwater Marina will move to a Cyclone Warning status where there is an intensifying risk of a cyclone or associated weather storm with damaging winds impacting on Townsville within 24 hours. Cyclone Warning reports are issued at 3 hourly intervals and will be reported hourly when a cyclone is close to landfall.

Based on advice from BOM, VTS and the Disaster Management group on the timing, intensity and location of the cyclone making landfall, the Marina may issue notices to all tenants of the likelihood of a **mandatory evacuation** from the Marina of all people.

## *Voluntary Evacuation Notice – BEST TIME TO GO*

*The Voluntary Evacuation Notice will be issued from the Disaster District Coordinator if there is a genuine local threat developing. This makes people aware they are in a potential danger area and allows them sufficient time to safely leave the Marina and seek refuge. Typically, in Condition Blue, a cyclone is still some way off the coast and is tracking towards the Townsville Region at a speed and intensity that would bring damaging winds and a storm surge. Because the cyclone is still distant, but intensifying, there is the possibility it may change direction or strengthen, but the recommendation is to evacuate early in conditions that are still safe to do so. This is particularly important for customers who are aged, alone, have poor health or have poor mobility. Don't forget to take your Emergency Kit when you evacuate.*

This is the last opportunity for boat owners to finalise their vessel preparations. Conditions will likely have deteriorated with strong winds and heavy rain having an impact ahead of the cyclone and making it increasingly difficult to be outside.

The most effective readiness measures to riding out a cyclone must be finalized with urgency – reposition the boat in the berth, run as many mooring lines as you can, deploy extra fenders and take all wind loadings down while ensuring sails, loose items and dinghies are heavily lashed down.

## **Your Preparations Include:**

- ☐ Finalise all your vessel and personal preparation and prepare to evacuate if Cyclone Strike Condition Red is activated. This is the absolute last chance to finish your readiness measures before it becomes unsafe to do so. Make sure you have a place to shelter from the storm if the Marina is evacuated.
- ☐ Monitor the storm system developments on the BOM website and on TV, Radio, VHF, Facebook and email from Breakwater Marina for regular cyclone updates
- ☐ Prepare your vessel to have shore power turned off and to switch your electronic appliances off.
- ☐ Prepare to disconnect your gas bottles, isolate valves and turn off your gas fuelled appliances.
- ☐ Remove food and other perishables like bait from fridges/freezers.
- ☐ The Regional Harbourmaster will order a "Cease All Vessel Movements" notice, taking your boat out of the Marina will no longer be permissible.

## Breakwater Marina Staff will:

- Update the Cyclone condition status from Yellow Watch to Blue Warning in each of the Pier notice boards, post updates from the Bureau of Metrology's predicted cyclone path at the Marina office and Laundry window.
- Issue updated cyclone condition status info to all Marina Tenants on email with a reminder to finish personal and vessel readiness measures in compliance with Cyclone Warning status Condition Blue.
- Follow-up with vessel owners who received notice from the Marina concerning their inadequate progress to ready their boats for the prospect of severe weather.
- Marina staff will assist as many customers as possible with their vessel preparations; priority will be given to those customers who had been previously identified as aged, unwell or physically restricted.
- Contact the remaining airdock owners to lower their vessels into water and make sure the submerged docks and boats are properly secured to the pontoons.
- Prepare to isolate the Fuel Wharf and shut down the Fuelling station.
- Finalise the stowing and taking down of select signs, flags and shade sails and stowing away tables, chairs and BBQ's around the Marina grounds.
- Prepare to shut down all Marina Power and Water and leave all buildings in readiness for evacuation.
- Administration staff will finalise measures in the Marina Office for evacuation which includes backing up all data, filing all paperwork and raising sensitive electrical equipment off the floor.

# A CYCLONE STRIKE – CONDITION RED

**Declared when a cyclone strike is imminent or the onset of extreme weather conditions associated with a high intensity cyclone. Cyclone Strike reports are issued every hour.**

This is not the time to be starting your vessel and evacuation preparations – it's too late for that. If the Disaster Management Coordinator issues the instruction to evacuate high risk areas like Breakwater Marina, all people must go. **Do not ignore this advice - the decision to issue an evacuation notice is not taken lightly and is based on the imminent impact of destructive winds and possible inundation of coastal and low lying areas from tidal surge.**

## Mandatory Evacuation Notice – YOU WILL GO

*The Disaster District Coordinator will issue a mandatory evacuation notice when there is a definitive threat to life. All people in the areas defined in the mandatory evacuation notice must follow the directions given. The Disaster District Coordinator has the power to enforce the notice. This power may be delegated to authorised officers in the field who will conduct the evacuation.*

Conditions will likely have deteriorated with strong winds and heavy rain having an impact ahead of the cyclone and making it increasingly difficult to be outside. Vessel preparations must be finished immediately.

By now, the boat will be repositioned in its the berth, at least one full second set of mooring lines are on, extra fenders have been deployed and wind loadings have been reduced by ensuring sails, covers, loose items and dinghies are heavily lashed down.

## Your Final Preparations Include:

- ☐ Advise the Marina office of your movements. If the Evacuation Order is issued for all persons in high risk coastal areas, it is mandatory; you must go to an alternate refuge for shelter. This will be broadcast on all mainstream media and Marina staff will circulate the advice also.
- ☐ The Harbourmaster will have issued a 'Cease all Movements' order so no vessel is to leave the Marina to seek alternative shelter at this stage
- ☐ Monitor the storm system developments on the BOM website and on TV, Radio, VHF, Facebook and email from Breakwater Marina for regular cyclone updates
- ☐ Before leaving your vessel, check your mooring lines are holding your boat in its berth and it's not riding up on to the pontoons. Check all vessel openings have been shut and any last leaks have been sealed and all deck areas are draining freely. Be sure your bilge pumps are set on automatic. Inform Marina office of any dangerous situations arising.
- ☐ Make sure your shore power leads is disconnected from the marina pedestal, your electrical and gas connections are isolated and off and all on board appliances are turned off.



## **Breakwater Marina Staff will:**

- Turn off all Marina Power and Water to the Piers and Buildings.
- Turn off and isolate the Fuel System.
- Shut off the gas cylinders and supply to the hot water systems supplying the Marina bathrooms. Ensure all tenants have evacuated the Marina after the Disaster District Coordinator has issued the order.
- Assist the authorities to evacuate all persons from Breakwater Marina when the order is given.

**THIS CYCLONE STRIKE STAGE IS AN EMERGENCY SITUATION**

# STORM TIDE AND EVACUATION GUIDE

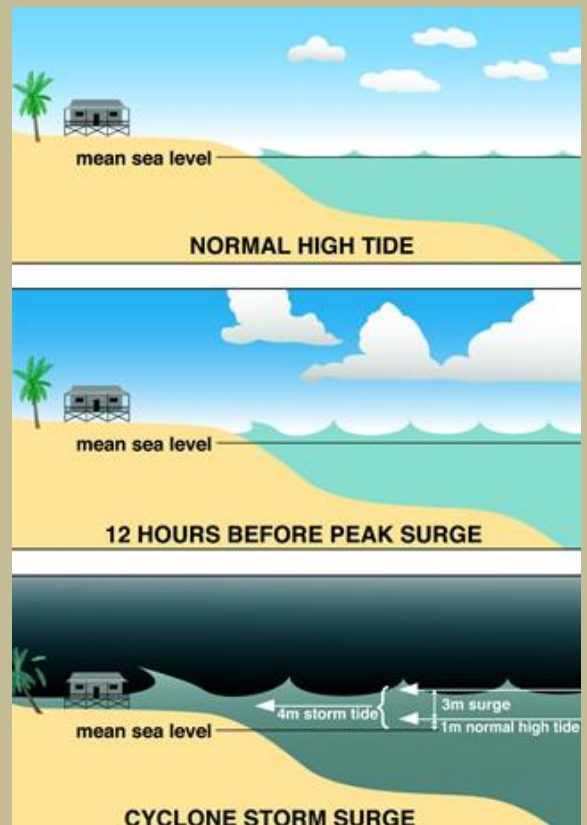
A Storm Tide is a rise above the tidal water level along a shore that is associated with a tropical cyclone.

Storm tides will be accompanied by gale force winds, with successive waves of seawater rapidly moving across the foreshore.

The worst impacts occur when the storm surge arrives on top of a high tide and when this happens, the storm tide can reach areas that might otherwise have been safe.

Pounding waves are often generated by the high winds and the combined effect of the storm tide and waves can be very destructive.

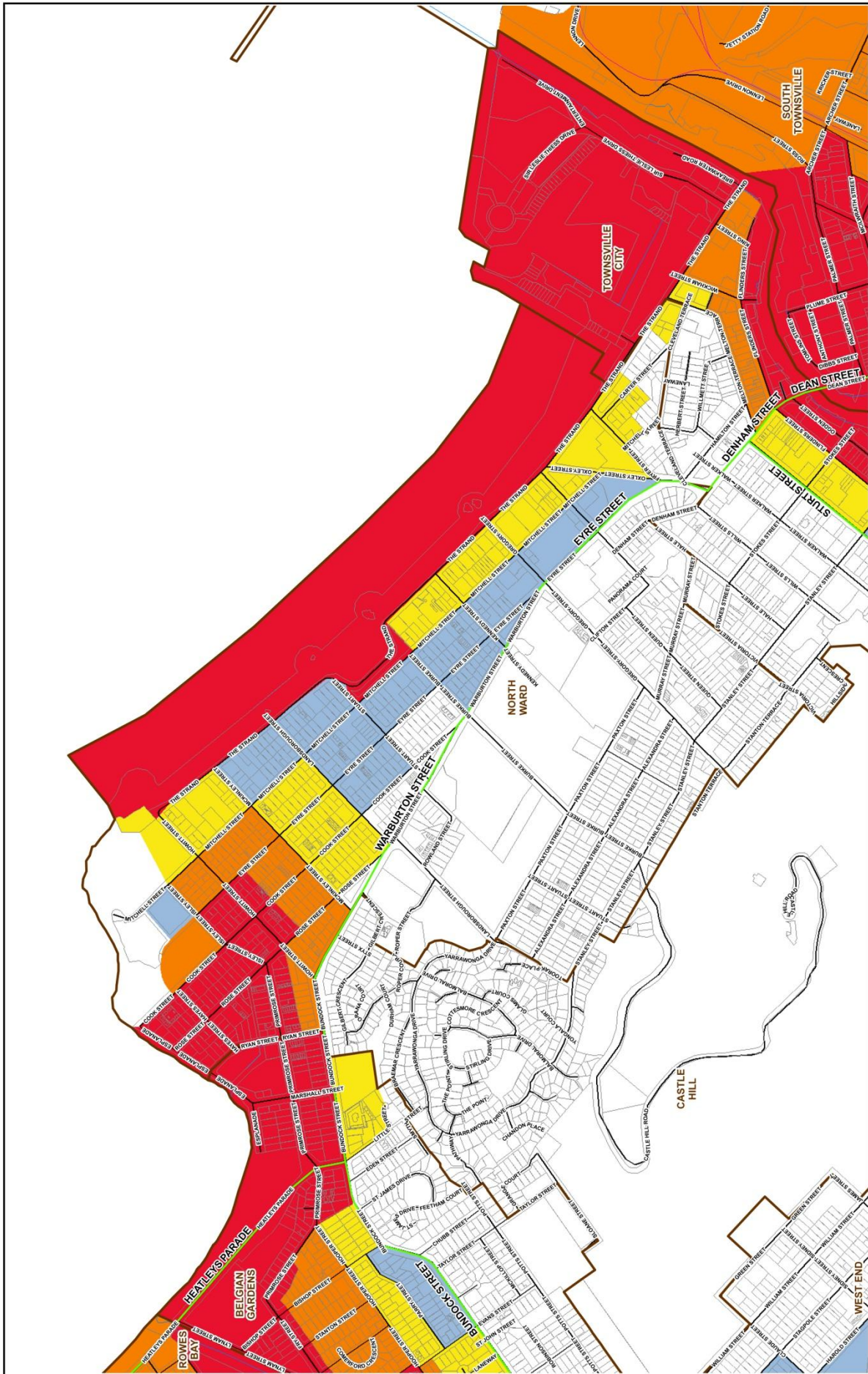
Coastal and low lying areas like Breakwater Marina are obviously at risk of inundation which puts the property in a declared **Evacuation Zone** if the predicted storm tide height, as advised by the Bureau of Meteorology, during a severe weather event is forecast to be high enough.



**In the event the predicted storm tide during a severe weather event requires the evacuation of people from Breakwater Marina, extra consideration needs to go to where you plan to evacuate to.**

Storm tide water can move rapidly across the foreshore and inundate areas kilometres inland so your **Personal Emergency Plan** must include early voluntary evacuation to avoid being cut-off and it must be clear on the High Risk areas of Townsville that are prone to flooding in the event of Storm Tide – refer to Townsville City Council's [Storm Tide Evacuation Guide](#).

**View Townsville City Council's [STORM TIDE EVACUATION MAPS](#)**



**Evacuation Zones**

- Major Evacuation Routes
- Australian Height Datum (AHD)
- RED <3m
- ORANGE 3 - 4m
- YELLOW 4 - 6m
- BLUE 6 - 8m

**TOWNSVILLE STORM TIDE EVACUATION ZONES NORTH WARD**

100 0 100 200 300  
Metres

**NOT FOR INDIVIDUAL DISTRIBUTION**

**DISCLAIMER**

Storm Tide Evacuation Zones are based upon geographical data and are not a guarantee of safety. They are intended as a guide for the public to identify coastal areas that may be affected by storm tides caused by tropical cyclones or severe east coast storms. Every effort has been made to ensure that the information is accurate, but the Council does not accept any liability or warranty. However, Townsville City Council does not give any warranty or accept any liability in relation to the content of these maps.

**Townsville**

# In Recovery

**IMPORTANT:** The centre or 'eye' of the storm will be a short period of calm - rain may stop & winds ease - but strong winds in the opposite direction to the leading winds will follow, so maintain your caution.



Do not assume when the extreme weather has passed that it is safe to move your vessel or access the Marina. Damaging winds, flooding, torrential rain, tidal surge and rough seas may persist after the cyclone has moved away or been downgraded to a severe weather warning or tropical low so continue to monitor all the information sources before moving around outside or coming to the Marina.

Marina Management will need to inspect the condition of the Marina and it's utilities and confirm they are safe – advice in this regard will be issued via email (if working), noticeboards and SMS.

The **Regional Harbourmaster** will give the all clear for vessels to recommence movements which will be posted by email and on Marina noticeboards. The **Disaster Management Group** will broadcast notices when the danger has passed and it is safe to go outside.

## **After the Event, Vessel Owners are reminded to:**

- ☐ Check with the Marina office if you are allowed onsite, Management have to declare the property safe.
- ☐ Inform the Marina office of your status and that of your vessel.
- ☐ Report any incidents or damage in respect to your vessel, other vessels or the Marina.
- ☐ When permitted to do so, check your vessel for any damage – take photos for insurance documentation.
- ☐ Do not reconnect to shore power until the ALL CLEAR is given by Marina Management.
- ☐ As long as the threat of rain has stopped, open your vessel to let it ventilate; particularly important before you attempt to start engines, generators or gas fuelled appliances.
- ☐ Check your lockers, hatches and bilges to be sure they haven't collected water. If you need to pump them out, confirm it's not contaminated so you don't pollute the Marina.
- ☐ Take down your superfluous ropes, particularly those that will be a hindrance to people walking around and to other vessels.
- ☐ Dispose of perishable foods if power was lost.

 **When Shore Power is switched back on it can trip as a consequence of the heavy rain and surges – keep an eye on it and report any problems.** 



## Breakwater Marina Staff will:

- Perform a Marina-wide Condition Audit.
- Identify any risk areas and check all vessels and pontoons.
- Electrician & Fire Communication technicians will be called to site to check the Marina systems before reactivation.
- Shore Power will be restored after it's been checked by an electrician and Marina Management is satisfied it is safe.
- Power will be turned on gradually so as not to overload the circuits.
- Gates will be checked and reactivated.
- Fuel System will be checked and tested before opening for any fuel sales.



**For further information or questions regarding our Cyclone Management Plan, please feel free to visit the Marina Office.**

**CONTACT US:**

WEB

EMAIL

**Channel 10 VHF or 07 4721 2233**

[www.breakwatermarina.com.au](http://www.breakwatermarina.com.au)

[reception@breakwatermarina.com.au](mailto:reception@breakwatermarina.com.au)

# Emergency Contacts

For Emergencies Dial **0 0 0**

Non-Life threatening calls:

Police (TSV City)

(07) 4759 9777

Ambulance

13 12 33

Fire Brigade (TSV City)

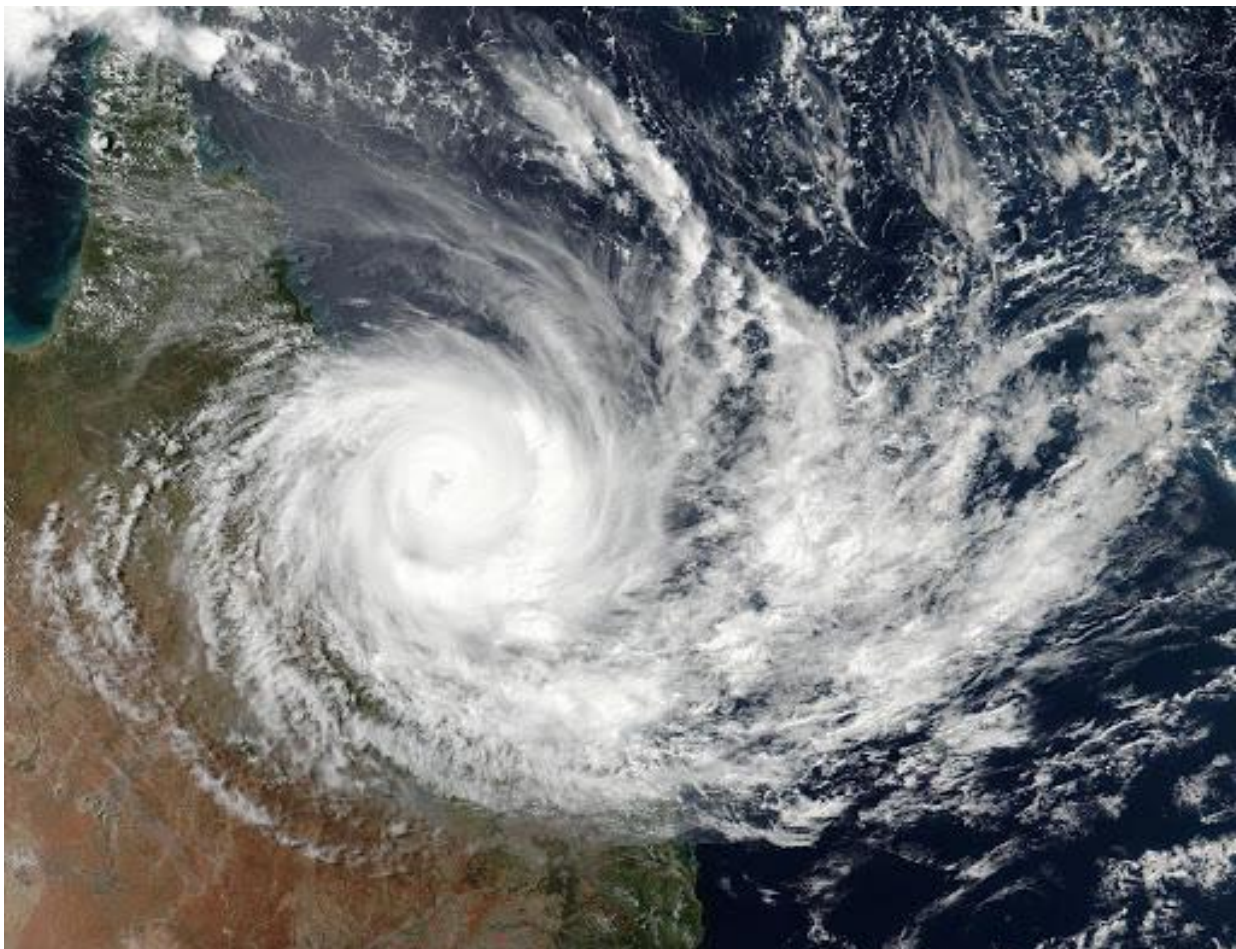
(07) 4771 2111

Townsville VTS (Vessel Traffic Service)

1300 721 263

Townsville Local Disaster Management (07) 4727 9000

<http://disaster.townsville.qld.gov.au/>



# Bureau of Meteorology Warnings

Weather Website & Cyclone Information: <http://www.bom.gov.au>

- Tropical Cyclone 1300 659 212
- Weather & Flood 1300 659 219
- Coastal Marine 1300 360 427
- Tsunami 1300 878 626

## State Emergency Service (SES)

13 25 00

Townsville Council (water/sewerage)

(07) 4727 9000

Townsville Hospital

(07) 4796 1111

Ergon (loss of supply & emergencies)

13 22 96

Telstra (faults)

13 22 03

Origin Energy (LPG emergency. leaks only)

1800 808 526

RACQ

1300 130 595

**CONTACT BREAKWATER MARINA: Channel 10 VHF or 07 4721 2233**

[www.breakwatermarina.com.au](http://www.breakwatermarina.com.au)  
[reception@breakwatermarina.com.au](mailto:reception@breakwatermarina.com.au)

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