Extreme weather event contingency plan – Brisbane Region

The extreme weather events of recent years have highlighted the need for awareness and vigilance to the risks such events present to maritime operations.

Maritime Safety Queensland has built on these recent experiences and is reissuing its contingency plans to ensure stronger resilience from the maritime community. Timely awareness and adequate preparation will reduce the impact of such events.

This extreme weather event contingency plan for the Brisbane Region sets out the particular arrangements for this region.

The Brisbane region extends from the Logan River to Double Island Point, 28 miles north of Noosa, on the Sunshine Coast. The region includes a significant proportion of Moreton Bay and its connected river systems. The busy coastal towns and centres of maritime activity on the Sunshine Coast all lie within the Brisbane region.

This plan has been formed to address the range of adverse weather events that may affect the region; be it summer storms, river flooding or the effects of a cyclone.

Even if you are an experienced mariner, we encourage you to read this plan for your region and familiarise yourself with its requirements. As you will see, the contingency plan requires you to think about your own planning in this context and to be prepared to enact this plan if required.

Remember, the best protection against extreme weather events is to plan for such eventualities and respond accordingly.

Patrick Quirk
General Manager
Maritime Safety Queensland

Captain Glenn Hale
Regional Harbour Master
Brisbane Region
Objective of this plan

The overall objective of this plan is to provide for the safety of vessels and their operation during extreme weather events. Personal safety is of prime importance at all times.

An extreme weather event may require the evacuation of the port, part of a port, a harbour or boat harbour. In such instances, the Regional Harbour Master’s objective is to have the port area evacuated and for all vessels to have enacted their own safety plans between forty eight and six hours but no later than six hours before the event is expected to impact.

This plan utilises emergency management concepts such as a comprehensive approach and principles such as an all agencies approach in its creation to best manage emergent events.

Master’s and owner’s responsibility in regard to this plan

Masters and owners of vessels have an obligation under the Transport Operations Marine Safety Act 1994 and Marine Safety (Domestic Commercial Vessel) National Law Act 2012 at all times to take appropriate precautions for the safety of their vessels, passengers and crew.

In extreme weather conditions, the Regional Harbour Master may give directions in relation to the operation and movement of vessels within their jurisdiction. Masters and owners are required to follow such directions.

Masters and owners need to familiarise themselves with this plan, determine and develop the most appropriate safety plan for their vessel and respond in accordance with any directions. Masters and owners are also required to monitor developments to ensure that they have the most up-to-date information on weather conditions and any directions in place.

Masters and owners are required to notify Maritime Safety Queensland of any changes to the following:

- vessel ownership
- residential address
- contact telephone numbers.

This up-to-date contact information is vital for an immediate response to any port emergency. Failure to provide correct details of vessel ownership is an offence under the Transport Operations (Marine Safety) Act 1994. and Marine Safety (Domestic Commercial Vessel) National Law Act 2012.

Unless absolutely unavoidable, all owners of vessels on the water should ensure their vessel is capable of moving without assistance or have alternative means of moving their vessel, particularly during extreme weather event peak seasons (for example cyclone seasons). Failure to do so may present an unacceptable hazard to the vessel, as well as other vessels and infrastructure. This may cause an owner to incur towage expenses.

If you are unable to attend to your vessel at short notice for any significant duration, particularly during the tropical cyclone season, you are to make arrangements with a person that can act on your behalf in the event of an extreme weather event. That person will be responsible to implement your safety plan. However, you as the owner are still responsible for the safety of your vessel.
In the event of extreme weather, masters and owners of vessels should avoid entering waterways if you have no purpose to be there.

**Extreme weather procedures in detail**

In the event of an extreme weather event threat the Regional Harbour Master will take the following action:

- restrict the movement of vessels if necessary
- direct and oversee the evacuation of the port or specific areas of the port or other affected areas if applicable
- close and reopen the port if necessary.

The Regional Harbour Master will also:

- advise mariners of relevant warnings and response requirements
- seek compliance with the response requirements.

These actions will be enacted over four distinct phases that allows for the development of appropriate responses to the threats faced.

**Phase 1: Extreme weather event watch - Prevention**

An extreme weather event watch will be issued when an extreme weather event or developing event is likely to affect the area **within 48 hours**, but not expected to impact the area within **24 hours**. This phase is a critical time for masters and owners to plan and prepare for the impact of the event.

During this period, masters and owners (or their representatives) should review their safety plans and address any matters outstanding (for example fuel, food, water and contact details).

The extreme weather event watch will be communicated through an appropriate combination of VHF radio warning messages, Notices to Mariners and media releases.

Masters, owners and marine facility operators are expected to review and prepare to implement their safety plans.

Certain high risk commercial vessels and facilities may receive specific advice and instructions through direct messaging from the Regional Harbour Master.

**Phase 2: Extreme weather event warning – Preparedness**

An extreme weather event warning will be issued when an extreme weather event or developing event is likely to affect the area **within 24 hours**. This phase is critical for masters and owners to complete all preparations in an orderly manner prior to the event occurring.

The extreme weather event warning will be communicated through an appropriate combination of VHF radio warning messages, Notices to Mariners and media releases.

Masters, owners and marine facility operators are expected to implement their safety plans in a timely and orderly manner.

Certain high risk commercial vessels and facilities will receive specific advice and instructions through direct messaging from the Regional Harbour Master. Some activities will be suspended and restrictions may be placed on the movements of other vessels.
Phase 3: Actual extreme weather event - Response

By this phase, all vessels are expected to have enacted their vessel safety plans noting that the port may be closed and/or vessel movements restricted depending on the threat to safety of vessel movements or the environment. Mariners should note that it is likely to be too late to consider the safety of your vessel and that extreme weather conditions may limit the ability of emergency services to assist you should you run into difficulties. Your actions should be directed towards your own personnel safety.

The extreme weather event will be communicated through an appropriate combination of VHF radio warning messages, Notices to Mariners and media releases.

Phase 4: After the extreme weather event has passed - Recovery

The Regional Harbour Master will assess residual risks and determine the actions needed to be addressed. Do not assume that as the extreme weather event has passed, it is now safe to move your vessel.

Vessels should stay in their place of shelter until they are advised that it is safe for vessel movements to resume. The lifting of restrictions and resumption of vessel movements will be communicated through an appropriate combination of VHF radio messages, Notices to Mariners and media releases.

Owners and masters of vessels should be aware that aids to navigation may be affected by the extreme weather event. Owners and masters should reference notices to Mariners for the latest updates. Furthermore, port infrastructure will need to be inspected to ensure that facilities are fit for purpose.

Port Closure

The Regional Harbour Master may close the port, wholly or in part, or restrict the movement of vessels in the pilotage area, commensurate with the threat to the safety of shipping or the environment. This can occur at any time prior to the event.

The closure of the port or restriction on vessel movements will, as far as practical, be implemented in consultation with key authorities and in a timely manner in order to minimise risks.

Reopening of the port

The pilotage area will not be re-opened until the Regional Harbour Master is satisfied that all danger has passed, and the pilotage area is safe for vessels to re-enter and following inspections and surveys to critical maritime infrastructure (for example navigational aids and wharfs) as well as clearance of navigational hazards.

The Vessel Traffic Services Centre will coordinate the safe movement of vessels following the opening of the pilotage area in accordance with normal practice. Berths will be re-opened and operations resumed when wind and sea conditions are within operational limits.

Communication

The successful implementation of this plan relies on high quality communication of information and directions.
The Vessel Traffic Services Centre will implement the extreme weather event contingency plan on behalf of the Regional Harbour Master by acting as the central communications point for the duration and aftermath of the extreme weather event. The Vessel Traffic Services Centre call sign is ‘Brisbane VTS’.

VHF channels 12 and 16 will be continuously monitored before and during the extreme weather event. Extreme weather watches, warnings and any directions will be announced on these channels.

If the plan requires for actions such as port evacuation, closure and/or the movement of vessels to safer moorings, these actions will be coordinated by the VTS Centre. In such instances, all vessels must contact the VTS Centre before moving to their area of shelter, either by telephoning 3305 1700 calling on VHF channel 12 or VHF channel 16.

**Key Contacts**

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<thead>
<tr>
<th>Name</th>
<th>Contact Number</th>
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<tr>
<td>Regional Harbour Master</td>
<td>3632 7500</td>
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<tr>
<td>Brisbane – “BRISBANE VTS”</td>
<td>3305 1700</td>
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**Key Websites**

- Detailed weather updates: [www.bom.gov.au](http://www.bom.gov.au)
- MSQ Website: [www.msq.qld.gov.au](http://www.msq.qld.gov.au)
Your safety plan

The master or owner’s responsibility is at all times to take appropriate precautions for the safety of their vessels, passengers and crew.

All masters and owners should have developed a vessel safety plan in response to extreme weather events. The plan should take into account the most likely risks arising from the hazards presented for your region.

You should trial your plan to ensure that it can be enacted competently and rapidly. Do not wait until the last minute to plan and prepare your response to extreme weather risks.

General considerations

A well prepared vessel with fully functional equipment is a key element to a successful safety plan.

- **Ensure that your vessel is in a seaworthy state**
  
  Maintain your vessel to ensure that deferred maintenance does not compromise the seaworthiness of your vessel at critical times. Check that all bilge pumps are operational and that all self-draining openings are clear and will remain so. Make sure all safety equipment is available, in working order and up-to-date where applicable (for example flares). Check all cleats and associated fittings for integrity. Generally, mooring lines are stronger than these. Keep storm anchors, spare warps and spare fenders ready at hand but well secured to prevent them creating a potential hazard in the event you must move the vessel. Securely stow all loose items. Secure all hatches and vents. Provision your vessel with fresh water, food and fuel and ensure that the batteries are charged.

- **Ensure your mooring arrangements are up for the job at hand**
  
  Check all mooring lines and warps for chafing and deterioration and replace if necessary. Man-made synthetic fibres such as polyethylene, polypropylene and polyester deteriorate in the sunlight and may show little signs of deterioration prior to failure. You should have a schedule worked out to replace mooring lines in accordance with manufacturer’s recommendations. Allow for a sufficient number of mooring lines so that you can double up your mooring arrangements. Have sufficient fenders for the anticipated mooring arrangements. Check anchor chains, shackles and anchor warps for wear and replace if necessary. If you intend to utilise a swing mooring, ensure that the mooring chain has been recently inspected. You should also be aware that flooding events resulting from extreme weather events may result in build-up of debris around the mooring chain, compromising the integrity of the mooring arrangement.

- **Reduce wind loadings**
  
  Remove all deck gear including lifebuoys, dodgers, bimini covers, clears and so on and store below. Remove sails, self-furling sails and covers. If this is not possible, double wrap or tie these components in such a way that the wind cannot tease any ends out and allow flapping of gear to commence.
• **Secure your tender**

Ideally, tenders should be stored in dinghy lockers, garaged or deflated and stowed if applicable. If stored with the vessel, tenders should be securely lashed inverted on deck to prevent filling with water – do not contemplate towing tenders. If left on purpose-built davits, tenders should be cleaned out and securely lashed and bungs removed.

**Marina-based safety plans**

Marina-based plans may be appropriate for your region. You should note that the design and construction of marinas requires the consideration of the likely range of weather conditions that might be experienced so that the overall structures would withstand the expected loads including storm surge while vessels are moored in the berths.

Notwithstanding the care which was taken in establishing design and construction criteria that were considered to be appropriate, no guarantee can be given that the structures are capable of maintaining their integrity in the complete range of extreme weather conditions. Remember vessels are moored at owners’ risk and it is the owner’s prerogative to move their vessel if they feel insecure in the marina, noting that any vessel movement should occur in line with the extreme weather contingency plan for the port.

In addition to the general points made above, marina-based safety plans need to consider the following issues. It is important that you discuss this with your marina management to understand their requirements so that your plan is consistent with marina operations:

• **The loadings on marina berths**

Some marinas allow for berths to remain occupied provided the berth has a pontoon equivalent to the overall length (LOA) of the vessel occupying it. Vessels may also be allowed to bear against the fingers/pontoons noting that suitable or additional fendering is likely to be required.

• **Mooring considerations**

Double up mooring lines, by running duplicated ropes to alternative bollards. Do not run duplicates to the same bollards – a single bollard failure should not release the craft from a safe mooring arrangement. The duplicate lines should be in good condition and run slightly slack to ensure that they are only required to work in the event of the chafing through the primary mooring lines. Vessels should not be secured to piles as this prevents pontoons moving with tidal and surge movements. Take particular care to protect against chafing. Ensure lines are made fast to substantial boat parts, for example mast steps, winches and so on, bearing in mind cleats are known to have been torn out of decks. Do not use chain to secure your boat to pontoon bollards. Chains have no ability to stretch, where ropes have a certain amount of give. Some marinas allow for anchors to be lowered in the marina berth to the sea bottom. Ensure there is enough slack to rise and fall of the vessel due to swell and storm surges. If the master or owner elects to stay on-board with the vessel, any mooring lines should be adjustable from onboard and sufficiently taut to ensure the vessel and pontoon move as one.

• **Other factors**

You are likely to be required to disconnect all shore power leads and water hoses. Some marinas have particular arrangements for the stowage of vessel tenders. Marina
management may determine the time when personnel are barred from the pontoons and/or hardstand areas. Ensure that you abide by any such direction.

**Hardstand storage**

Hardstand storage is a viable alternative for trailer vessels or vessels undergoing maintenance. However, vessel windage is considerably increased through hardstand storage. In such situations, owners and masters of vessels should:

- place the vessel head to the wind if possible
- take particular care to secure and stow all deck items
- ensure wheels are chocked and trailer brakes applied
- attach the trailer or cradle to the nearest strong point(s).

You should note that flying debris, particularly in the hardstand areas, can cause serious injury or may be lethal during a severe weather event. Please exercise all due care when operating in these areas.