

Wednesday 9 October 2024







Presenters

- Phil Darling National Safety Equipment Auditor
- David Staley MHYC Sailing Manager, National Race Officer







Agenda

- Session Aims
- MHYC Risk Management Framework
- Safety Afloat
- Avoiding Incidents Harbour Hazards, Scenarios
- Recovering from Incidents Groundings, Vessel & Crew Preparation, Man Overboard
- Open Forum Discussion







Session Aims

- Inform and educate
- Reduce personal injury
- Reduce property damage
- Increase awareness
- Make safety a priority







Accredited MHYC Officials

- Safety Equipment Auditors
- Race Officers

MHYC Documentation

- Sailing Operations Plan
- Incident Management Plan
- Sailing Handbook







Other Documentation

- Racing Rules of Sailing
- Australian Sailing Special Regulations
- NSW Marine Safety Regulations
- International Rules for the Prevention of Collisions at Sea (COLREGS)
- Transport for NSW Aquatic License Exemption
- Transport for NSW Maritime Incident Reporting Process







MHYC Incident Reporting Process

- Website > Keelboat Club Racing Noticeboard > Incident Reporting
- On Shore or On Water Incidents MHYC Incident Report Form

NSW Maritime Incident Reporting Process

- If the incident has resulted in death or injury, or damage in excess of \$5000 to a vessel or any other property, the report must be forwarded to Transport for NSW (TfNSW) within 24 hours, unless the particulars have already been given to a TfNSW officer
- www.service.nsw.gov.au/transaction/submit-vessel-incident-reports







Safety Equipment Audits and Free Get Checked Days

Communication

- Annual Skippers Briefing
- Other Forums
- Notices & Reminders Electronic Noticeboard, Email, Series Noticeboard





Communication

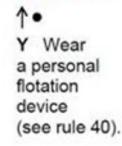
- Signals
- VHF













V Monitor communication channel for safety instructions (see rule 37).





Safety Afloat



Two components:

Avoiding incidents

Or, if something does happen, then...

Recovering from incidents





Part 1 – Avoiding Incidents



It will never happen to me, will it?

We have had a number of significant incidents – no deaths (that I am aware of), but hospitalisations and vessel damage.

Actual events during MHYC races include:

- Clubhouse start unexpected gybe in shifting winds, 2 crew hit in the head, one overboard face down in the water unconscious
- Rose Bay mark skipper overboard, dragged backwards through the water by the main sheet at 6 kts
- Fort Denison vessel aground on western end, major keel and rudder damage



Harbour Hazards



Commercial, Military & Recreational Boating Traffic













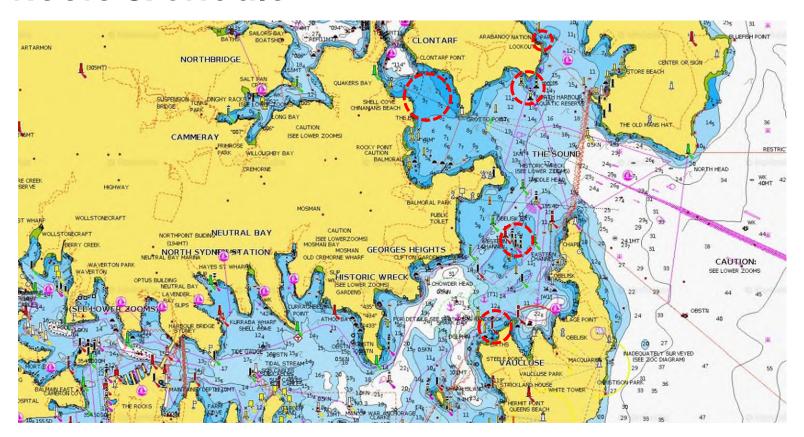






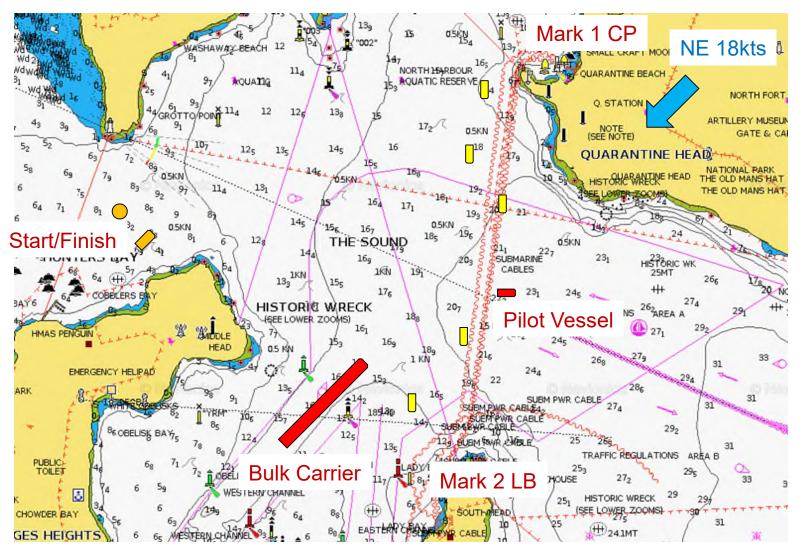
Harbour Hazards

Reefs & Shoals





Scenario 1







Activated Exclusion Zone

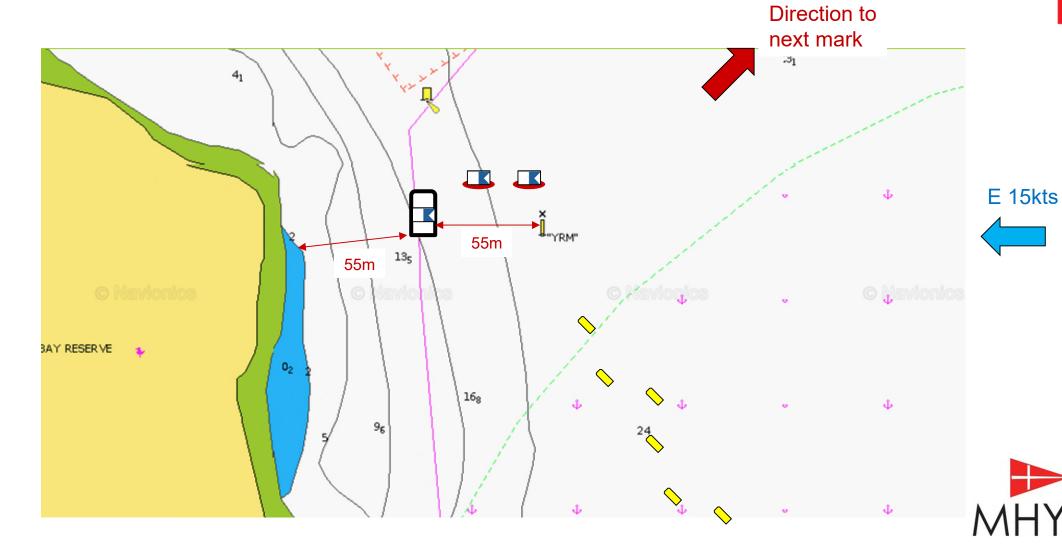


Competitors shall:

- not pass between the bow of any Seagoing Ship and a dedicated NSW Port Authority escort vessel whilst on escort duty.
- maintain a minimum distance of 500 metres from the bow and 30 metres from the side or stern of any Seagoing Ship underway.
- maintain a minimum distance of 200m from the bow, and 30m from the sides or stern of any Ferry underway.



Scenario 2





Diver Below



2016 NSW Marine Safety Regulation 40 states:

 The operator of any vessel must ensure that the vessel and any towing equipment and any person being towed by the vessel maintains a distance of not less than 60 metres from the location of a dive flag on the surface of the water or, if that is not practicable, a safe distance and speed.





Part 2 – Recovering from Incidents

ents

What you need

- Readiness (a mental state) be prepared for the unexpected
- The right gear special regs requirements are just the start
- Training crew readiness:
 - MOB
 - Other possibilities (fire, collision, ...)





Groundings & Keel Inspections



What if we touch the bottom?

- We may (or may not) have done damage but how do we know?
- Even "soft" groundings (in sand or mud) may have caused damage to the keel, keel bolts or scantlings
- There have been a number of serious incidents where keels have become detached over the years:
- Cheeki Rafiki (Beneteau 40.7 2014) mid Atlantic
- LCE Showtime (Ker 40 Jan 2020) returning from Hobart
- Nexba (Farr X2 30ft March 2022) off Wollongong
- Runaway (Sayer 11m June 2024) off Lady Elliot Island
- Quite a few other production makes often near coastal





Groundings & Keel Inspections



For Categories 1-3, this is a Special Regulations requirement

- SR 3.02.5: Evidence of a structural inspection in accordance with 3.02.4 within 24 months before the start of the race or after a grounding whichever is the later.
- SR 3.02.6: Inspection after Grounding an appropriately qualified person shall conduct an internal and external inspection after each unintentional grounding.

SR 3.02.4 and Appendix C give an outline of requirements

- External out-of-water check by a qualified person
- Check all keel bolts & re-tighten if necessary
- Check for visible stress cracks





Groundings & Keel Inspections



For Categories 4-7

 MHYC recommends that the "Model Keel and Rudder Inspection Procedure" in Appendix C3 be used as a guide.







- Hull, Rig & Sails
- Anchoring
- Emergency Equipment
- Crew Familiarisation & Training







Hull, Rig & Sails

- Is there water in the bilge?
- Are the sea cocks operational?
- Have we checked the rig? Checked or tightened all shackles?
- Are the sails in good condition? Any un-repaired tears or weaknesses?







Anchoring

- If all else fails stops a bad situation getting worse
- Must be assembled and ready to deploy
- Can the crew get it deployed quickly enough?
- Is it secured at the bitter end?
- Have you checked it in practice?







Emergency Equipment

- Cat 7 (in-harbour) or Cat 4 (offshore) or as required by the sailing instructions
- Requirement to have equipment on board, in good condition and ready to use
- Make sure the crew and yourself can use it properly
 - radio (which channel?)
 - flares
 - anchor, MOB gear, first aid kit, and more ...
- The regulation gear is just the minimum your boat and your crew may need or want more





Crew Familiarisation and Training

- For existing and new crew have the occasional training day
 - MOB
 - Anchoring
 - Reefing and storm sails
 - Water ingress
 - Abandon ship/calling for help
 - Fire
 - Medical emergencies
 - Where the gear is kept
- And don't forget to brief new crew/guests







More common than you think

Can be fatal

• Feb 2023 Lincoln Week Cat 6 event - MOB drowned during pre-start







Procedure

- Preparation Equipment and Training
- Awareness Recognise they are gone
- Locate
- Return to MOB
- Retrieval (Get them out of the water)
- Check and treat are they OK? Do they need first aid or medical/hospital treatment?



Preparation

- Have the right equipment
- Have a procedure and practice it with the crew

• What if you (the skipper) goes over?











Awareness

- Shout and point
- Roll call after an incident
- Buddy system?
- BUT stay calm don't panic







Locate

- Point & Shout (if you can see them don't lose sight)
- MOB button on your GPS (position to return to)
- Lifering or Danbouy to mark position
- Williamson turn? (motor boat technique but it does work)
- Search pattern (and call for help Mayday if necessary)
- At night hope they have a light or at least reflective gear







Return

- Stop as fast as possible
- Headsail/spinnaker down
- Centre the main
- Engine on (even if you don't need it but be careful of lines in the water)
- Return as quickly as you can
- BUT keep someone watching the MOB
- AND stay aware of other vessels and hazards
- AND keep the rest of the crew safe on board







Retrieval

- Return upwind
- Stop next to them (Windward? Leeward?) OR drift down sideways
- If conscious get a line to them (Lifesling? Throwline?)
- If unconscious someone needs to go in with them but don't lose them too! (tie to the boat)
- Get them on board somehow! (means will vary)







Check and Treat

- Are they OK?
- Why did they go over? Any injuries from that?
- Do they need first aid? Do you need to get them to medical or hospital treatment?
- Watch out for secondary drowning
- Sources of help
 - other boats
 - Marine Rescue
 - MHYC (VHF 72)
- OR is everything OK and you can just continue?







Final Words

- Can be very serious
- Best treatment is prevention keep everyone on board!





Open Forum









Please stay safe on the water ©

