

### **Presenters**

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



# **Agenda**

- Session Aims
- MHYC Risk Management Framework
- Harbour Hazards
- Groundings & Keel Inspections
- Vessel & Crew Preparation
- Man Overboard Retrieval Techniques
- Open Forum Discussion



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### **Session Aims**

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



# **Risk Management Framework**



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# **Risk Management Framework**

#### Accredited Officials

- Safety Equipment Auditors
- Race Officers

#### Documentation

- Australian Sailing Special Regulations
- Transport NSW Aquatic License Exemption
- Marine Safety Regulations
- Sailing Operations Plan
- Incident Management Plan
- Sailing Handbook
- Transport NSW Maritime Incident Reporting Process



### **Risk Management Framework**

- 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
  - https://www.service.nsw.gov.au/transaction/submit-vessel-incident



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### **Risk Management Framework**

- Safety Equipment Audits and Free Get Checked Days
- Communication
  - Annual Skippers Briefing
  - Other Forums
  - Notices & Reminders Noticeboard, Email
  - Signals



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



Y Wear a personal flotation device (see rule 40).



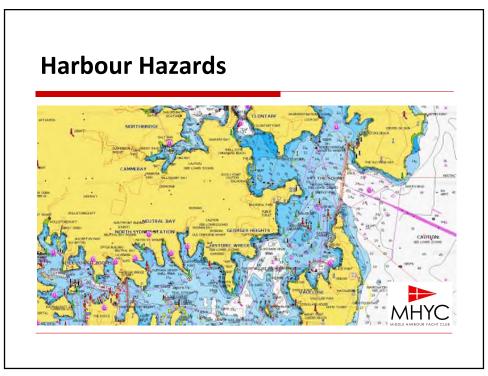
V Monitor communication channel for safety instructions (see rule 37).





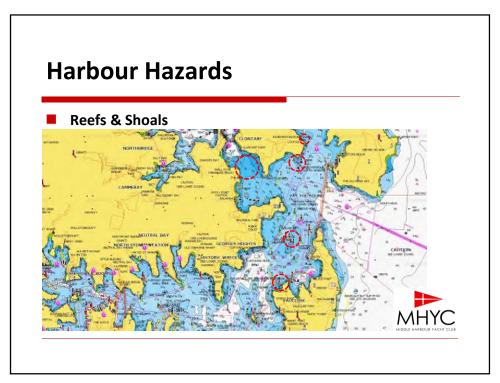
# **Harbour Hazards**



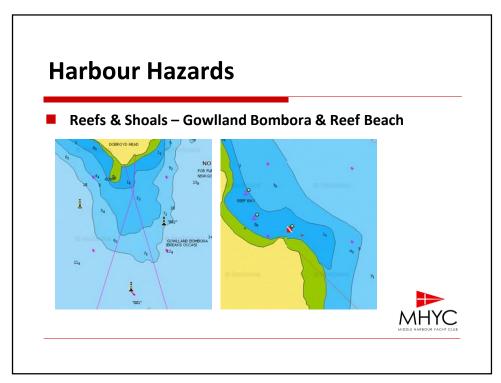


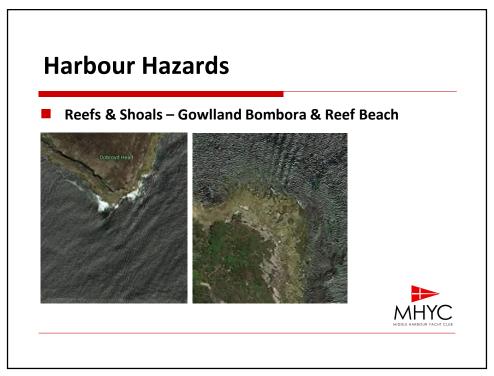


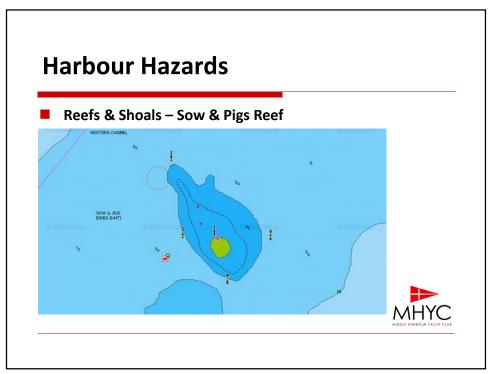


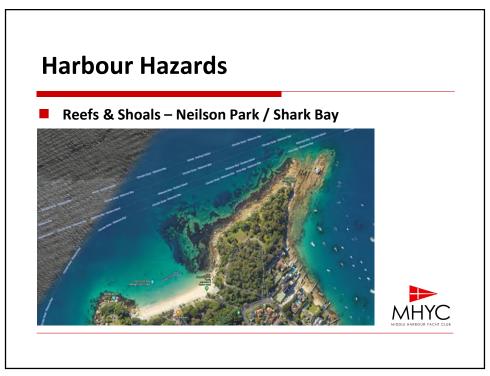


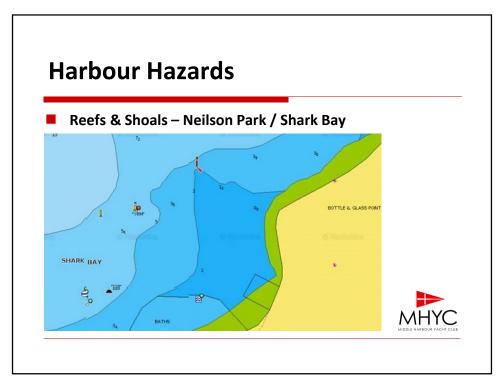


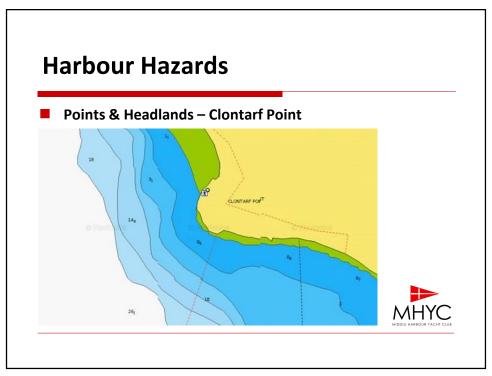


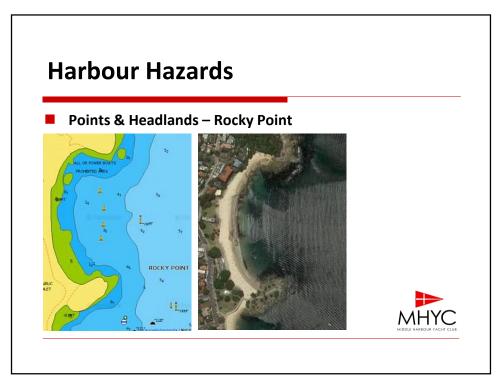


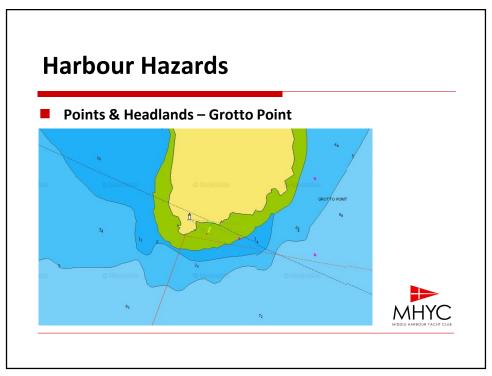


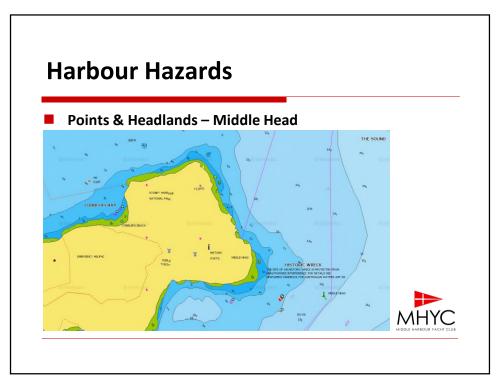


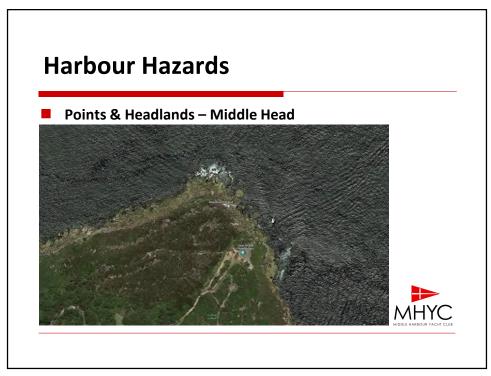


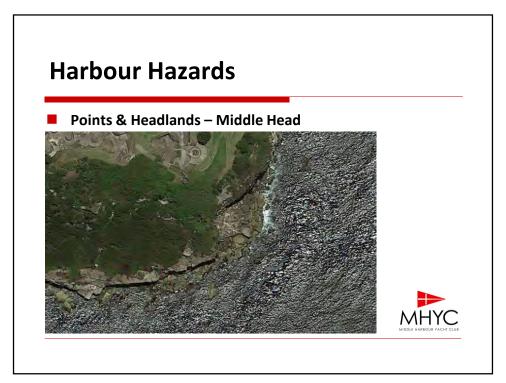


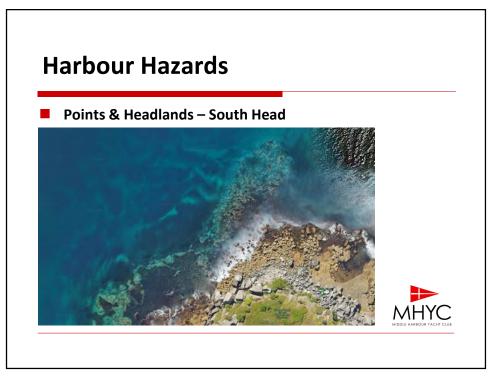


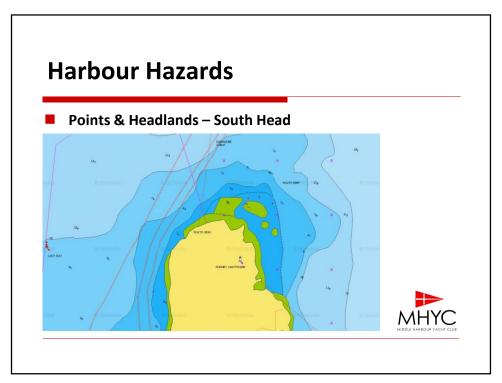


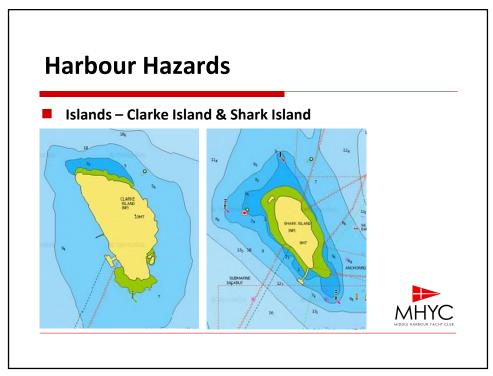


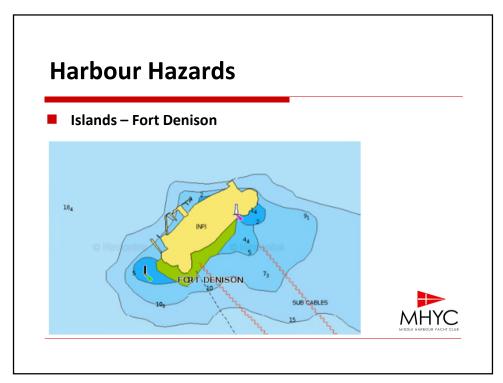


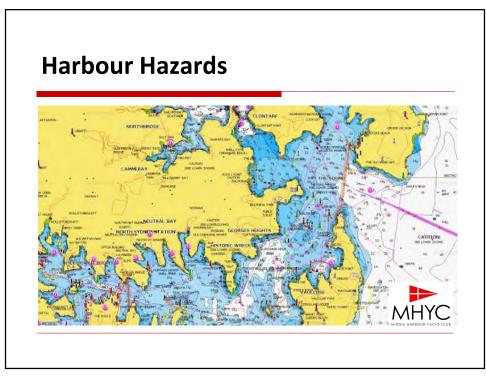












# **Groundings & Keel Inspections**



### **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
  - LCE Showtime (Ker 40 Jan 2020) returning from Hobart
  - Nexba (Farr X2 30ft March 2022) off Wollongong
  - Cheeki Rafiki (Beneteau 40.7 2014) mid Atlantic
  - Quite a few other production makes often near coastal HYC



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### **Groundings & Keel Inspections**

- For Categories 1-3, this is a Special Regs 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, there is a MHYC requirement
  - NOR Section 11: ...it is a MHYC requirement that the person in charge satisfies themselves of the continuing structural integrity and safety of the vessel after any grounding, however minor.



MHYC

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### **Groundings & Keel Inspections**

- Cats 1-3: 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
- Cats 4-7: we recommend that the "Model Keel and Rudder Inspection Procedure" in Appendix C3 be used as a guide.

# **Vessel & Crew Preparation**



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# **Vessel & Crew Preparation**

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



### Hull, Rig and Sails

- Right gear for the day? What if conditions change?
- In good order?
- Enough fuel to get home?
- Bilge pumps OK? Buckets on board?
- Checklist before setting out



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# **Vessel & Crew Preparation - 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
- The regulation gear is just the minimum your boat and your crew may need or want more
- Make sure the crew and yourself can use it properly
  - radio (which channel?)
  - flares
  - anchor, MOB gear, first aid kit, and more ...



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# **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



### **Man Overboard Retrieval**

- More common than you think we have them regularly
- Can be fatal eg Feb 2023 Lincoln Week Regatta
  - Cat 6; fell overboard & drowned during pre-start



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# **Man Overboard Retrieval**

- 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?





# **Man Overboard - Awareness**

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



#### **Man Overboard - 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



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#### Man Overboard - 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



#### **Man Overboard - 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)



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#### Man Overboard - 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? MHYC



# **Man Overboard – Final Words**

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



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# **Open Forum Discussion**





