Updates on AIS Prevention from the Recreational Boating Industry

Sarah Orlando
Ohio Clean Marinas Program Manager
Ohio Sea Grant
Overview

• Recreational Boating Industry Updates
  • NMMA
    • Position Paper
  • ABYC
    • Design Standard
    • AIS Summit

• Ohio Clean Marinas Program Updates
  • Boat Bottom Washing
  • Clean Boating Education to Paddlers
NMMA and ABYC

**National Marine Manufacturers Association (NMMA)**

- Nation’s leading trade association representing boat, marine engine and accessory manufacturers
- NMMA members manufacture an estimated 80% of marine products used in North America.

**American Boat and Yacht Council (ABYC)**

- Non-profit member organization that develops voluntary global safety standards for the design, construction, maintenance, and repair of recreational boats
- 90% of boats on the water are built to ABYC standards
NMMA Position Paper on AIS

NMMA Working to Promote:
• Changes in boat design
• Boater education programs
• Federal, state, and local decontamination and inspection programs

Position:
• “Focus on developing innovative ways to prevent AIS proliferation that still allow boaters to move their boats from one water body to another”

NMMA Position Paper on AIS

Actions:

• Serving on ANSTF

• Updated their “You and Your Trailer” manual to include significant amount of AIS prevention information

• ABYC first organization to consider how changes to boat/engine/trailer design can help fight the spread of AIS
ABYC T-32: Design and Construction in Consideration of Aquatic Invasive Species

• Design and construction standard to improve cleaning, draining, drying, inspection, and decontamination processes for watercraft and accessory manufacturers

• These procedures are intended to cover most AIS threats and represent the worst case scenarios that a boat may be exposed to in the field.

Hull Considerations

• Applies to:
  • Exterior surfaces and structures at and below waterline

• Best Practices
  • Improve visual and physical access to areas subject to inspection and decontamination
  • Design wells and other areas for complete drainage
  • Implement external flushing ports
  • Seal strakes, keels, ribs, and other structural components
  • Design bilges to prevent water-trapping features
  • Select materials to allow complete drainage
  • Design features that facilitate inspection without the use of tools
  • Provide methods of identifying the location and function of through-hull fittings
System/Component Considerations

• Applies to:
  • Interior Areas (live-well, bilge, ballast tank, storage areas, etc.)
  • Equipment (anchors, PFDs, gear, dock lines, etc.)

• Best Practices
  • Design systems and components for complete drainage
  • Utilize universal flush inlet fittings
  • Provide methods to identify the location and function of through-hull fittings
  • Consider filtration devices for raw water systems
  • Select materials and coatings with consideration to the maximum temperatures that may result during decontamination
Propulsion System Considerations

• Applies to:
  • Propulsion system (lower unit, trolling motor, prop, engine housings, paddles and oars, etc.)

• Best Practices:
  • Include AIS supplements in owner’s manuals
  • Standardize flush connections (e.g., common garden hose)
  • Utilize external flush adaptors or integrated flushing technologies
  • Utilize closed cooling systems (sterndrive/inboard)
  • Design easily drained raw water systems
  • Test engines to current decontamination procedures for adverse effects
Trailer Considerations

• Applies to:
  • Trailer areas (rollers/bunks, wheels/tires, axles, fenders, etc.)

• Best Practices
  • Incorporate labeled AIS flush ports or openings
  • Add standardized hose fitting at flush opening (i.e., garden hose)
  • Where possible, avoid square edges; rounded designs prevent corners that may trap organic material
  • Utilize open frame construction or self-draining tubular design
  • Components that are immersed in water during the normal launch and retrieval process, such as trailer lighting systems, should be self-draining or submersible
  • Components that are not normally immersed but which may come into contact with the high water temperatures and pressures of the decontamination process should be watertight and capable of withstanding exposure to 140°F
  • Incorporate a message to “Clean, drain, and dry the boat, trailer and equipment, removing any attached plant material or debris”
Owner’s Manual and Collateral Literature

“Owners’ manuals should include a section on Aquatic Invasive Species that includes some background information on the issue, why preventing the spread is important, examples of AIS of concern, and an explanation of Clean Drain Dry® and a reference to the Stop Aquatic Hitchhikers® website. Owner’s manuals should also have specific information and diagrams on places within the watercraft, trailer, engine, or systems that boaters should inspect, clean, or drain (e.g., ballast tanks).”
ABYC AIS Summit – 2018

• Mission:
  • To engage major stakeholders in an in-depth dialogue regarding prevention, inspection and decontamination of boats

• Follow up to Summit in 2015

• Participants from
  • Federal, state, local agencies
  • Industry
  • NGOs
ABYC AIS Summit

Research and AIS Updates
• Camphor Shoot Beetle
• Residual Water Study
• Ballast System Study
• Outboard Engine Testing
• Antifreeze Study
• Decon Equipment Testing
• Raw Water Pump Testing

Prevention Efforts
• Western states focused on prevention with WID (watercraft inspection and decontamination programs), claim successfully prevented ZM/QM in states with WID programs
Next Steps – “where do we go from here”

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<th>NMMA</th>
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| • Disseminating design standard to industry, improving boater education publications (on labels, manuals, etc.), advocacy | • Lot of research has been done since 2015, now that more information is out there, more opportunity for change.  
• Challenge is ROI has not been actualized. Best way to achieve change in manufacturing is to change the voice of the customer – is there a market for an “AIS safe boat”? | • Have to figure out a way to standardize training and support  
• How do we educate and incentivize boaters for using “AIS-safe” products? |
Ohio Clean Marinas Program Updates

**Boat Bottom Washing Regulation**
- 2018 – marinas no longer allowed to discharge boat wash wastewater
- OCMP working to help find alternatives for discharge
- Opportunity for boat wash station for AIS at marinas with boat ramp?

**Non-Motorized Watercraft Education**
- OCMP working with groups on incorporating clean boating education (including Clean, Drain, Dry messaging) into safe boating programs
Ohio Clean Marinas Program

CONTACT

Sarah Orlando
*Ohio Clean Marinas Program Manager*
Ohio Sea Grant
orlando.42@osu.edu
419-609-4120

FIND OUT MORE

[ohioseagrant.osu.edu/clean](http://ohioseagrant.osu.edu/clean)

[www.facebook.com/OhioCleanMarinasCleanBoaters](http://www.facebook.com/OhioCleanMarinasCleanBoaters)

[ohiocleanmarinas@osu.edu](mailto:ohiocleanmarinas@osu.edu)