

### **Pathways for AIS Introduction & Expansion**

# Initial Introductions from Cargo Ship Ballast Water



**W**=

Canals and other Connected Waterways





Recreational Watercraft



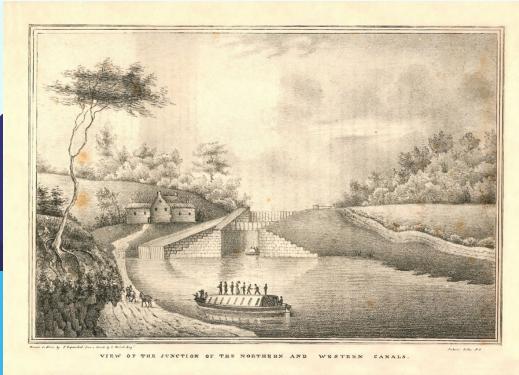


**Fishing Gear/Bait Buckets** 



**Aquarium Dumping** 

# THE CHAMPLAIN CANAL: 200<sup>TH</sup> ANNIVERSARY



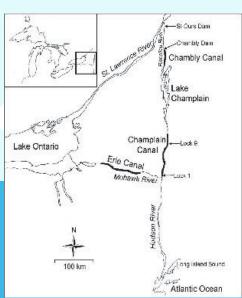
"View of the Junction of the Northern and Western Canals," 1825. https://waterfordmuseum.com/always-know-your-pal-erie-canal-bicentennial-exhibit-2017/view-of-the-junction-of-the-northern-and-western-canals/



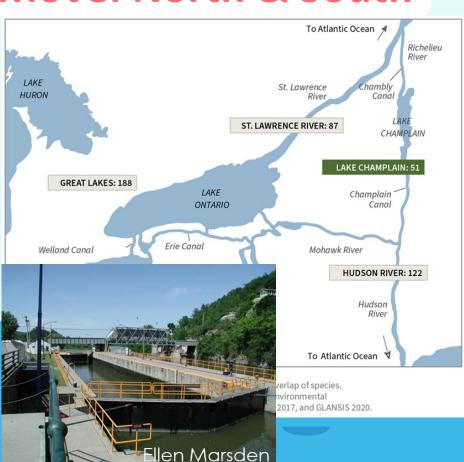
### Round Goby on the Move: North & South

→ Champlain Canal, NY

→ Chambly Canal, QC







#### PROTECT YOUR WATERS

#### Baitfish may be small, but they can be big trouble!

Help keep fishing great in New York State by preventing the spread of invasive species and diseases.

- Don't dump fish or water from one waterbody into another.
- Follow the NYS baitfish regulations and use baitfish only where permitted, https://on.ny.gov/baitfishregs.
- · Purchase certified disease-free baitfish.
- · Dispose of unused baitfish in the trash or at a disposal station.
- · Report illegal stocking to NYSDEC. 1-844-DEC-ECOS (1-844-332-3267).



Learn about more ways to protect your waters, https://on.ny.gov/preventaquaticinvasives.

Two harmful invasives spread by improper bait disposal





Rudd







#### What can you do to help?

To prevent the spread of round goby and other aquatic invasive species, follow these simple steps:

- . Clean, drain, and dry your watercraft and equipment thoroughly before visiting other waterhodies
- o Inspect and remove debris and mud from boats, trailers, and equipment before and after each use. Dispose of all debris and unwanted bait in trash cans or at disposal stations.
- Drain all water-holding compartments. including live wells, bait wells, and bilge areas. If possible, visit a decontamination station and disinfect these areas using hot water (140°F) for at least 30 seconds.
- o Dry boats, trailers, and all equipment before use in another waterbody. Let equipment dry outside for a minimum of 5-7 days.
- Don't dump aquarium pets, plants, or waste in any waterbodies, drainage ditches, or sewers.
- Purchase bait from a dealer that sells only certified bait. Visit https://www.dec. nv.gov/outdoor/124974.html for more information on baitfish regulations.

### Monitoring, Mitigation, and Prevention



## Rapid Response Plan (NY DEC & Canal Corporation)

Series of "Trigger Actions" based on potential expansion of Goby up the canal system

Scheduled Lockages

"Double Flushing"

Further restricting lockages, escalating to closing locks 8 & 9 to commercial/recreational traffic



## USACE Phase I Study for AIS Barrier

Three "alternatives" considered in Phase I Study

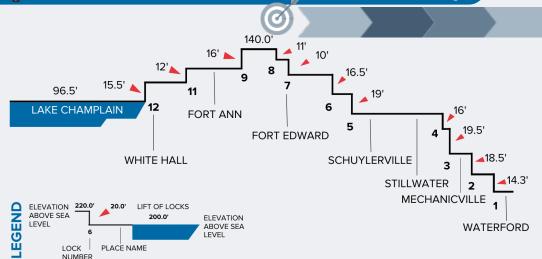
USACE recommends physical barrier/hydrological separation

Boat lift to carry watercraft over barrier

Permanent solution to canal AIS pathway into Lake Champlain

## USACE Proposal for AIS All Taxa Barrier on the Champlain Canal

#### CHAMPLAIN CANAL Elevation Map



INTERIM RAPID RESPONSE PLAN FOR THE CHAMPLAIN CANAL SYSTEM IN NEW YORK STATE, page 18.



Figure 11. Champlain Canal Aquatic Invasive Species Barrier Study Phase I Report.



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