

Invasive species issues, and potential solutions, in Québec and Canada



Anouk Simard

Exotic species issues in Canada versus United-States



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'Exotic' species come north to Nunavut

CBC News Posted: Jul 11, 2011 7:38 PM CT | Last Updated: Jul 11, 2011 7:38 PM CT 29

A close-up photograph of a large, colorful wasp-like insect on dark rocks. The insect has a black and yellow striped abdomen and long antennae. It is positioned in the center of the frame, facing left. A play button icon is visible in the bottom right corner of the image.

'Exotic' Arctic species 2:02

People in Nunavut are encountering plant and animal species they have never seen before in Canada's Arctic, species more commonly seen south of 60.

Life forms that are not native to Nunavut's environment have started showing up in the last few years, including a wasp-like insect that was recently photographed by Niore Iqalukjuak of Arctic Bay.

It was an insect species not usually seen in the North.

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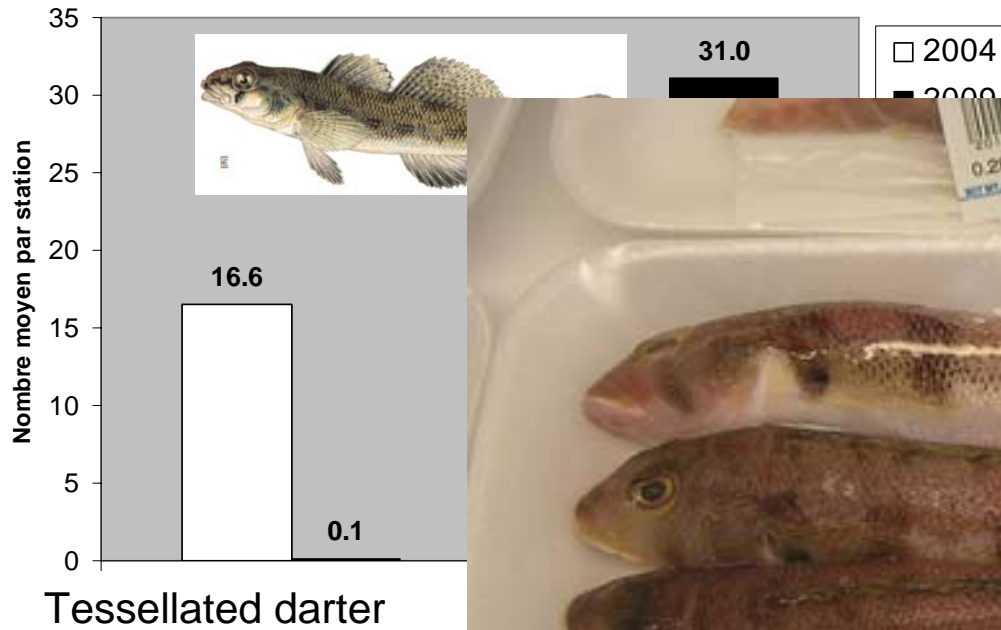
How it all started?

17^e century

Many of these non-native species are classified as “invasive”, meaning they must cause or be likely to cause economic or environmental harm or harm to human health.



Specific case study: Round Goby



Smallmouth bass



Specific case study: Dydimo

18 salmon rivers are infected

Québec- Gaspésie

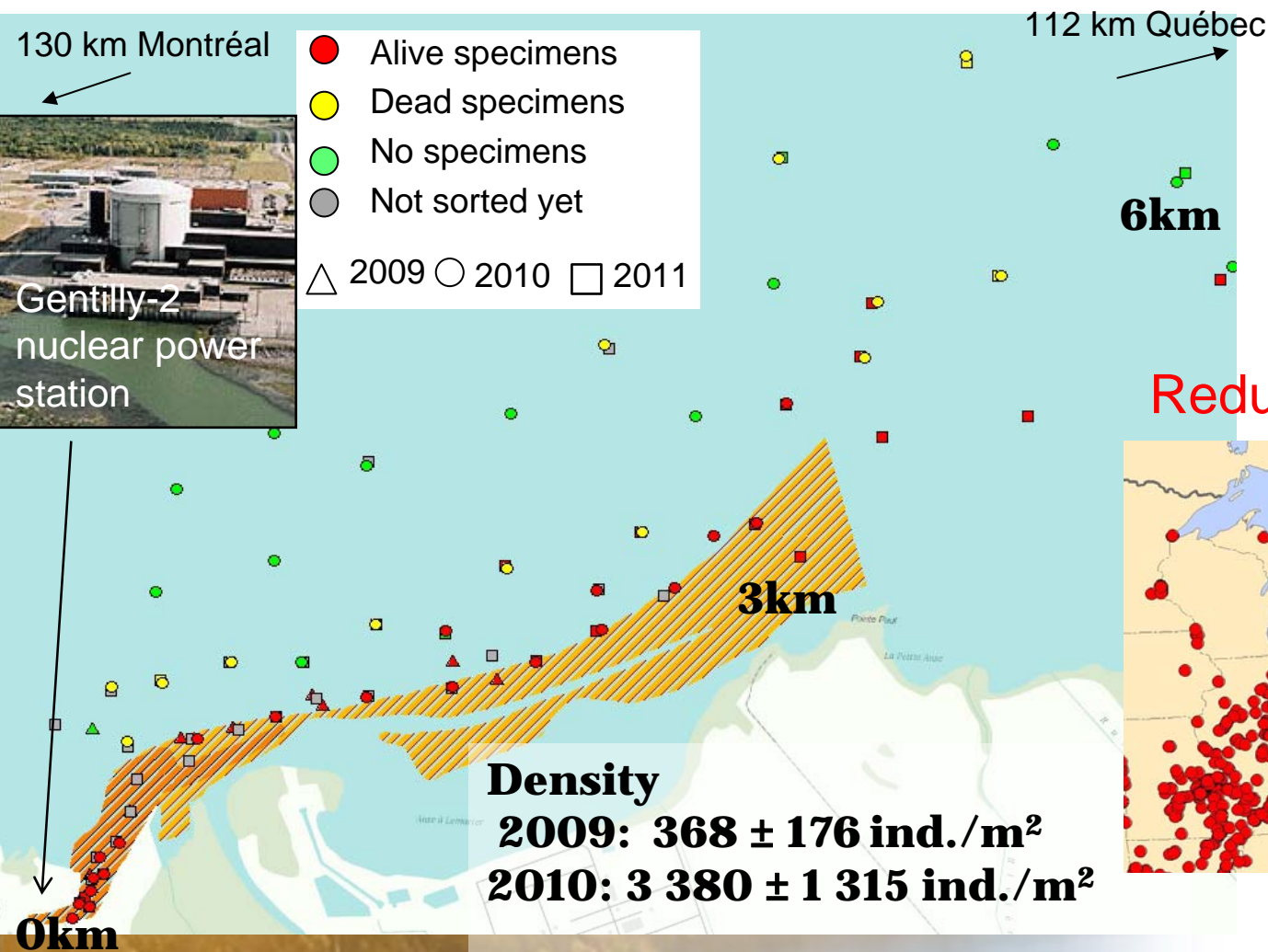
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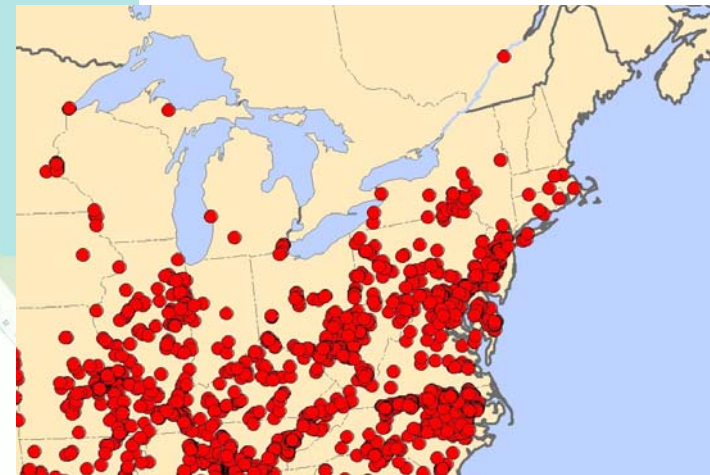
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Specific case study: Asian Clam



Reduced survival at 2°C

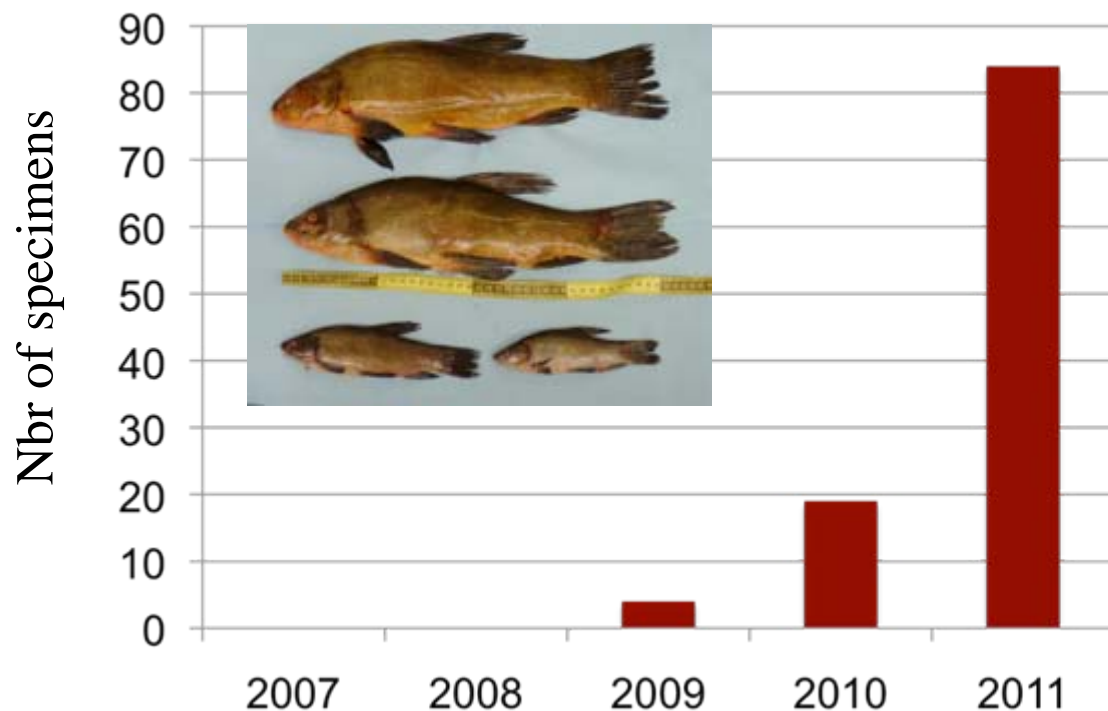


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Specific case study: European Tench

Tench capture by commercial fisherman in the St Lawrence (St-Pierre Lake)



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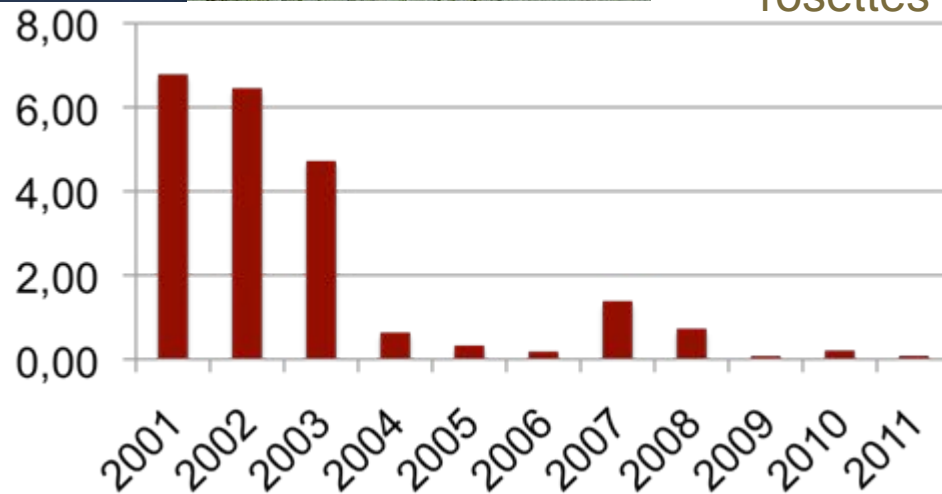
Specific case study: Water Chestnuts

Detected in the South River in 1998 and spread to the entire water course (14 km). Now also in Brochets and Richelieu Rivers



98% reduction in biomass between 2002-11: from 6.79M to 0.08M of rosettes

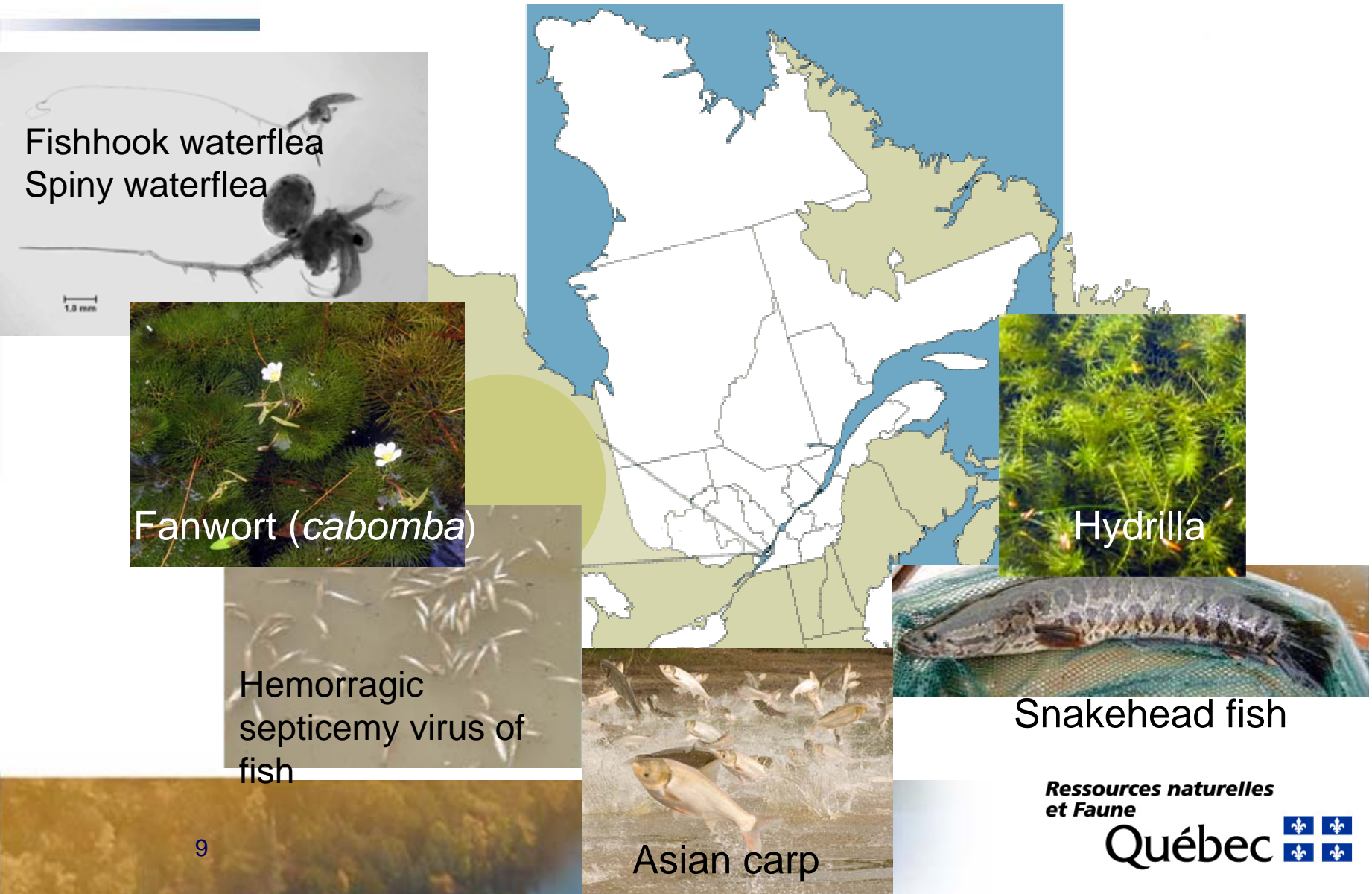
Millions of rosettes collected since 2001



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Others AIS threatening Québec



Reducing the risk on new invasions and propagation

New bait fish regulations in 2012

- Importation of bait fish dead and alive is illegal starting in 2012
- Bait fish dead and alive can be used during winter (ice cover)
- No bait fish can be used during summer (alive in 2013 and dead in 2017)



New regulations for fish possession in 2012

List of fish for which keeping in captivity, transport, sale and purchase is prohibited (ex. asian carp and snake head)



Interjurisdictional collaboration to prevent AIS

It's necessary to collaborate and be imaginative about the way we can reduce AIS invasion and propagation



AIS do not go through customs!

With the hope to have no additional invasion!

