



Northeast Aquatic Nuisance Species Panel

Resource Digest – June 14, 2005

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Please send items and postings for the NEANS Panel Digest to Susan.Park@state.ma.us

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A. News From the Northeast

Sightings

Zebra mussels prevented from introduction in New Hampshire

New Hampshire's Lake Winnepesaukee received a scare when a boat carrying zebra mussels was stopped just short of launching. Luckily, a staff person at Fay's Boat Yard noticed the Ohio tags on the boat and performed an inspection. The boat, which had mussels on the engine, engine mounts, speedometer tube, and transducer, was cleaned and did not enter the lake. For more information, visit

<http://www.des.state.nh.us/press/press060805zebra.htm>

<http://www.fosters.com/apps/pbcs.dll/article?AID=/20050610/CITIZEN0101/106100061/-1/CITIZEN>.

Other headlines from around the region

Massachusetts invasive plant list released

The Massachusetts Invasive Plant Advisory Group (MIPAG) has released two invasive plant documents. The first document, *The Evaluation of Non-Native Plant Species for Invasiveness in Massachusetts*, lists plants as invasive, likely invasive, or potentially invasive in MA. The other document, "Strategic Recommendations for Managing Invasive Plants in Massachusetts," recommends actions that agencies, organizations, and businesses in the Commonwealth can take to improve upon the problem. Both documents are available at <http://www.massnrc.org/MIPAG/>.

Northeast agencies join forces to fight sea lamprey in Lake Champlain

The Lake Champlain Fish and Wildlife Management Cooperative and the Great Lakes Fishery Commission have been battling a common enemy, the sea lamprey. The two organizations have been working together on control and research since 1990. In May, they made their partnership official by signing a memorandum of understanding. This MOU will allow them to share resources in their combined effort to control the nuisance species in Lake Champlain and the Great Lakes. More information can be found at

http://www.freep.com/news/statewire/sw115406_20050505.htm.

US Fish and Wildlife Service awards \$1M+ for ANS management

The US Fish and Wildlife Service has announced that fourteen states and a Native American fish and wildlife commission will receive grants to implement their state ANS management plans for 2005-2006. In the Northeast, Maine, Massachusetts, and Lake Champlain each received over \$70K to implement their plans. The press release can be seen at <http://news.fws.gov/newsreleases/showNews.cfm?newsId=CC33B702-65BF-03E7-25EAD40C0BB2B84E>.

B. Coming Soon to a Watershed Near You

Vision of the future: A cargo ship that won't require ballast

Wallenius Wilhelmsen, an ocean transportation company based in Sweden, has released a concept design for a new cargo vessel that has many environmentally friendly features. Not only would the ship release no emissions and run on renewable fuel sources but it would also not require the use of ballast water, effectively eliminating the threat of transporting species in ballast tanks. For more on the new vessel, go to <http://www.2wglobal.com/expo2005/english/zeroEmissionCarrier/index.jsp>.

Genetic tests of ballast water as a possible prevention method

Marine scientists at Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO) have developed a new method of detecting invasive species. The technique can detect potential invaders (including larval forms) in a sample of ballast water by looking for their DNA "fingerprint." Species-specific probes have been created for Australia's top 3 marine pests. See the full story at <http://www.marine.csiro.au/media/04releases/21apr04.html>.

Meet the newest Panel: the Mid-Atlantic Regional Panel on ANS

The Mid-Atlantic Regional Panel on ANS (MARP) has been officially recognized as the sixth regional panel of the federal ANS Task Force. MARP is collaboration between Delaware, the District of Columbia, New Jersey, New York, North Carolina, Maryland, Pennsylvania, Virginia, and West Virginia. The Chesapeake Bay Program hosts the Panel. The Panel's website is <http://www.chesapeakebay.net/marp.htm>. A story on MARP can be found at <http://www.bayjournal.com/article.cfm?article=2524>.

C. Policy and Legislation

Ruling gives Great Lakes states a role in ballast water regulation

A federal judge has granted a motion to allow the Great Lake states of Michigan, Minnesota, Wisconsin, New York, Illinois, and Pennsylvania to intervene in the lawsuit involving EPA's exemption of ballast water from Clean Water Act permitting. In March, the same judge repealed the EPA exemption. The states filed the motion so that they could become more involved in determining how the federal government regulates ballast water discharge. More information on this story can be found at <http://www.duluthsuperior.com/mld/duluthsuperior/news/local/11785926.htm> http://www.freep.com/news/statewire/sw116529_20050531.htm.

Governor signs Michigan ballast water bill

A bill that would require vessels to have a permit before discharging ballast has been passed by the legislature and signed by Governor Jennifer Granholm. The law will require oceangoing ships to obtain a state permit to enter Michigan ports starting in 2007. The signing of the bill coincided with Michigan's Aquatic Invasive Species Awareness Week. More information can be found at http://www.freep.com/news/statewire/sw116787_20050606.htm.

D. Reports, Publications, and Web-based Resources

Reports

Feature article in Discover Magazine

The cover story for the May 2005 issue of Discover Magazine was entitled, "The Truth About Invasive Species: How to stop worrying and learn to love ecological intruders," by Alan Burdick. The July 2005 issue will feature some rebuttal letters in response to this article.

Alternative Ballast Water Exchange Zones

In 2004, the Department of Fisheries and Oceans (DFO) held a national peer review to assess working papers on alternative ballast water exchange zones. The report from this peer review is now online. The citation is: DFO, 2004. Alternative ballast water exchange zones; 30 November – 1 December 2004. Fisheries and Oceans Canada. Canadian Science Advisory Secretariat Proceed. Ser. 2004/042. The report can be found at http://www.dfo-mpo.gc.ca/csas/Csas/proceedings/2004/PRO2004_042_B.pdf.

Invasive Plants of Asian Origin Established in the United States and Their Natural Enemies: Volume 1

This USDA Forest Service publication contains summaries of existing information on 40 species of plants found in Asia that were introduced either intentionally or accidentally into the United States. The information was obtained from the Chinese literature as well as from discussions with Chinese scientists. This book is intended to serve as a resource for regulatory and plant protection agencies worldwide. It includes some aquatic plants such as *Lythrum* spp. (Loosestrife). For a free copy, contact: Yun Wu, Forest Health Technology Enterprise Team, USDA Forest Service, 180 Canfield St. Morgantown, WV 26505. Email: ywu@fs.fed.us.

Gulf Of Maine Summit Proceedings

The “Gulf of Maine Summit: Committing to Change” Summit was held in October 2004 in St. Andrews, New Brunswick. The Summit brought together stakeholders from around the Gulf of Maine to assess current environmental conditions, share knowledge and develop plans for future actions needed to continue improving the environmental quality of the Gulf. The issue of invasive species was raised throughout the Summit. Proceedings are available at <http://www.gulfofmainesummit.org/report.html>.

Web resources

Connecticut Agricultural Experiment Station’s Invasive Aquatic Plant Program

<http://www.caes.state.ct.us/aquaticplants/>

This new website contains a wealth of information on the aquatic plant program, including general information, survey results, descriptions of the invasive aquatics, and volunteer information.

Virtual Library of the American Institute of Biological Sciences

<http://www.aibs.org/virtual-library/>

The Virtual Library of the American Institute of Biological Sciences (AIBS) contains plenary lectures by some of the world’s preeminent biologists recorded at AIBS Annual meetings from 2000 onwards. The theme of the March 2004 AIBS Annual Meeting was “Invasive Species: The Search for Solutions.”

Dynamic Atlas of the Gulf of Maine

<http://gmbis.iris.usm.maine.edu/>

This website is the data and mapping portal of the Gulf of Maine Biogeographic Information System (GMBIS), which allows the user to explore, download, and map biological and biogeographical data from multiple sources. The goal of this site is to enhance the understanding of biological patterns in the Gulf of Maine, across space and time.

Select publications from the scientific literature

Trends in Ecology and Evolution. Special issue: Invasions, guest edited by Michael E. Hochberg and Nicholas J. Gotelli. Volume 20, Issue 5, Pages 211-269 (May 2005).

Asakura, A & S Watanabe. 2005. *Hemigrapsus takanoi*, new species, a sibling species of the common Japanese intertidal crab *H. penicillatus* (Decapoda: Brachyura: Grapsoidea). *Journal of Crustacean Biology*. 25: 279-292.

Astaneï, I, E Gosling, J Wilson, & E Powell. 2005. Genetic variability and phylogeography of the invasive zebra mussel, *Dreissena polymorpha* (Pallas). *Molecular Ecology*. 14(6): 1655-1666.

Colautti, RI, M Manca, M Viljanen, HAM Ketelaars, H Bürgi, HJ Macisaac, & DD Heath. 2005. Invasion genetics of the Eurasian spiny waterflea: evidence for bottlenecks and gene flow using microsatellites. *Molecular Ecology*. 14 (7): 1869-1879.

Ding, J and B Blossey. 2005. Impact of the native water lily leaf beetle, *Galerucella nymphaeae* (Coleoptera: Chrysomelidae), attacking introduced water chestnut, *Trapa natans*, in the Northeastern United States. *Environmental Entomology*. 34(3): 683-689.

Drake, LA, PT Jenkins, & FC Dobbs. 2005. Domestic and international arrivals of NOBOB (no ballast on board) vessels to lower Chesapeake Bay. *Marine Pollution Bulletin*. 50(5): 560-565.

Floerl, O, G Inglis, & H Marsh. 2005. Selectivity in vector management: an investigation of the effectiveness of measures used to prevent transport of non-indigenous species *Biological Invasions*. 7(3): 459-475.

Hidalgo, F, P Barón, & J Orensanz. 2005. A prediction come true: the green crab invades the Patagonian coast. *Biological Invasions*. 7(3): 547-552.

Naylor, R, K Hindar, IA Fleming, R Goldberg, S Williams, J Volpe, F Whoriskey, J Eagle, D Kelso, & M Mangel. 2005. Fugitive salmon: Assessing the risks of escaped fish from net-pen aquaculture. *BioScience*. 55(5): 427-437.

Simberloff, D. 2005. The politics of assessing risk for biological invasions: the USA as a case study. *Trends in Ecology and Evolution*. 20(5): 216-222.
<http://www.protectyourwaters.net/news/data/Simberloff%20TRNDS%20Risk%20Pub.pdf>.

Wonham, M & J Carlton. 2005. Trends in marine biological invasions at local and regional scales: the Northeast Pacific Ocean as a model system. *Biological Invasions*. 7(3): 369-392.

E. Upcoming Conferences and Events

July 10-13, 2005 – San Antonio, TX, USA

45th Annual Meeting of the Aquatic Plant Management Society

Sponsored by the Aquatic Plant Management Society.

<http://www.apms.org/2005/2005.htm>

July 12-14, 2005 – Portland, ME, USA

River and Lake Restoration: Changing Landscapes

Hosted by the Universities Council on Water Resources and the National Institutes for Water Resources. One planned topic is the control and management of invasive species.
<http://ucowr.siu.edu/05CoP.pdf>

August 10-12, 2005 – Point Clear, AL, USA

Workshop on Molluscan Shellfish Safety

Program entitled “Integration of Science and Policy for Vibrios and Viruses”

Ballast water issues will be discussed, primarily as they relate to shellfish viruses and diseases.

http://www.masgc.org/issc_icmss/

August 16-17, 2005 – Philadelphia, PA, USA

2005 Mid-Atlantic Exotic Pest Plant Council Conference and Annual Meeting

Program title: "Invasive Plants: Perspectives, Prescriptions and Partnerships"

<http://www.ma-eppc.org/aug05conferencerelease.pdf>

August 23-26, 2005 – Wellington, New Zealand

4th International Conference on Marine Bioinvasions

<http://www.vuw.ac.nz/marineconference2005/mbic.html>

August 28 - September 1, 2005 – Washington, DC, USA

Invasive Species: Regulatory Concerns and Successes

A symposium of the American Chemical Society National Meeting

<http://www.chemistry.org/portal/a/c/s/1/acdisplay.html?DOC=meetings%5cindex.html>

September 5-12, 2005 – Katowice, Poland

8th International Conference on the Ecology and Management of Alien Plant Invasions

http://www.emapi.us.edu.pl/invite_ok.php

September 16-17, 2005 – Framingham, MA, USA

2nd New England Invasive Plant Summit

Convened by the Invasive Plant Atlas of New England (IPANE) and New England Invasive Plant Group (NIPGro).

<http://invasives.eeb.uconn.edu/ipane/summit05/plantsummithome.htm>

October 4-7, 2005 – Brasilia, Brazil

Brazilian Symposium on Invasive Alien Species

http://institutohorus.org.br/trabalhosa_simposio_eei_eng.htm

October 6-8, 2005 – Chico, CA, USA

4th Annual Cal-IPC Symposium

Title: Prevention Reinvention: Protocols, Information and Partnerships to Stop the Spread of Invasive Plants

http://groups.ucanr.org/ceppc/2004_Symposium/

October 17 - 21, 2005 – Puerto Vallarta, Mexico

North American Plant Protection Organization (NAPPO) Annual Meeting – “Slowing the Spread”

http://www.nappo.org/menu_e.shtml

May 14-19, 2006 – Key Biscayne, FL, USA

14th International Conference on Aquatic Invasive Species

Abstracts are due by September 16, 2005.

<http://www.icaais.org/>

F. Other

Funding opportunities

Grant to prevent spread/introduction of *Caulerpa*

The Stockton Fish and Wildlife Office (STFWO) is soliciting proposals to implement projects directly related to preventing the introduction or spread of non-native invasive *Caulerpa* species into coastal waters of the US. Total funding available may be as much as \$20,000 for 1-2 projects. Successful awards will be made through grants or cooperative agreements. For more information, see http://fedgrants.gov/Applicants/DOI/FWS/FWS_R1/ANS-02/Grant.html.

Native Plant Conservation Initiative

The National Fish and Wildlife Foundation, in partnership with the Plant Conservation Alliance, has announced a Request for Proposals for the 2005 Native Plant Conservation Initiative (NPCI). Pre-proposals are due August 15, 2005. For more information, see <http://www.nfwf.org/programs/npci.htm>.