



BALLAST WATER COLLABORATIVE
PROPOSAL

**PROPOSED WORK PLAN FOR
TRANSFER RISK MITIGATION
WORKING GROUP**

JANUARY 19, 2011
TORONTO, ONTARIO



OUTLINE

- Risk Model - On-going work
- Working Group
 - Proposed tasks
 - Suggested participants
- Proposed timeline
- Discussion



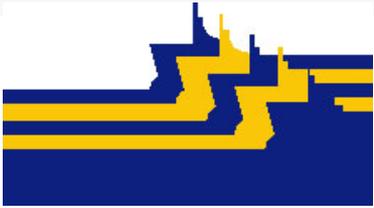
ON-GOING EFFORTS

- As part of further development of this project, we expect the following tasks to be completed over the short term to facilitate the efforts of the BWC Working Group:
 - Capture a greater representation of domestic movements (US fleets and non-CSA Canadian fleets)
 - Expand AIS inventory to include up to date representation of St. Lawrence River



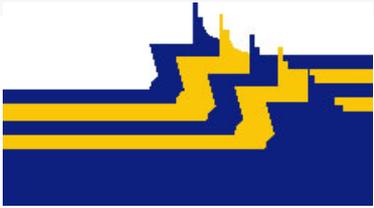
WORKING GROUP TASKS

- Proposed major tasks for the Ballast Water Collaborative Working Group:
 1. “Complete” the risk assessment model
 2. Apply the risk assessment
 3. Explore technologies and practices to mitigate the potential risks identified
 4. Develop a report of the Working Group’s findings, including the results of the risk assessment, inventory of technologies and practices, and recommendations for consideration by Federal and State regulators on risk mitigation options



WORKING GROUP PARTICIPANTS

- In order to complete the major tasks identified, it is proposed that the Ballast Water Collaborative Working Group include:
 - Members of the scientific community
 - Industry representatives (vessel owners and technology developers)
 - Members of the regulatory community
 - Environmental NGO representatives



PROPOSED APPROACH: TASK 1

- Task 1: “Complete” the Risk Assessment Model
 - Establish expert panel of scientists on aquatic invasive species to advise on elements of the risk assessment
 - Validate current assumptions / Confirm methodology
 - Confirm data sources for certain elements of risk assessment (i.e. probability of survival, probability of establishment, impact)
 - Incorporate criteria for survivability, impact, etc.
 - Survey scientists re: impact of individual species
- Target Completion: May 1, 2011



PROPOSED APPROACH: TASK 2

- Task 2: Apply the risk assessment to identify and rank potential risks by species and movements
 - Rank species / trade routes by level of risk
 - Recommend species / trade routes for risk mitigation efforts
- Target completion: May 15, 2011



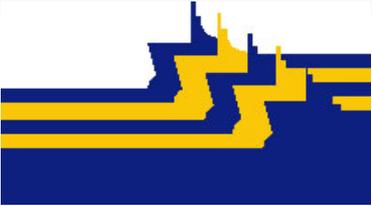
PROPOSED APPROACH: TASK 3

- Task 3: Explore technologies and practices to mitigate potential risks identified
 - Establish a consultative panel including AIS scientists, technology developers and vessel owners to:
 - Inventory current ballast water management practices and opportunities for improvement
 - Identify and evaluate possible vessel modifications and possible technological solutions
 - Pursue on board vessel trial(s) to assess the effectiveness of the approach (target 2011)
 - Document and report to the broader working group
- Target Completion: May 15, 2011



PROPOSED APPROACH: TASK 4

- Task 4: Develop a report of the Working Group's findings, including the results of the risk assessment, inventory of technologies and practices, and recommendations for consideration by Federal and State regulators on risk mitigation options
 - Present results and findings of cumulative efforts as part of a meeting of the Working Group and prepare final report for publication
- Target Completion: May 27, 2011 (in parallel to the Green Marine Green-Tech Conference, Chicago)



THANK YOU