

# **CANADA – USA WORKSHOP PROGRAM**

## **Transboundary Marine Species at Risk Recovery in a Changing Climate: Taking Stock of Canadian and US Scientific and Governance Responses, Enhancing Future Cooperation**

<b>Day 1.</b>	<b>Taking Stock of Canadian &amp; US Responses</b>
<b>8:30 – 9:00 AM</b>	<b>Breakfast</b> ( <i>light continental breakfast</i> )
<b>9:00 – 9:10 AM</b>	<p><b>Opening Remarks:</b></p> <ul style="list-style-type: none"> <li>• Michelle Nowlin, Co-Director, Duke Environmental Law and Policy Clinic, Duke University School of Law</li> <li>• Steve Roady, Senior Lecturing Fellow, Duke University School of Law and Professor of Practice, Marine Science and Conservation, Nicholas School of the Environment, Duke University</li> <li>• Jordan Diamond, President, Environmental Law Institute (<i>virtual</i>)</li> <li>• David VanderZwaag, Director, Marine &amp; Environmental Law Institute, Dalhousie University</li> </ul>
<b>9:10 – 9:40 AM</b>	<p><b>Keynote Address:</b> Vulnerability of Marine Species to Climate Change: Scientific Understandings and Limitations in a Cross-boundary Context</p> <ul style="list-style-type: none"> <li>• Aurore Maureaud, Postdoctoral Associate, Department of Ecology, Evolution &amp; Natural Resources, Rutgers University</li> </ul>
<b>9:40 – 10:40 AM</b>	<p><b>PANEL 1:</b> Managing Transboundary Species at Risk in the Face of Climate Change: Canadian and US Law and Policy Overviews</p> <p><b>Chair:</b> David VanderZwaag, Director, Marine &amp; Environmental Law Institute and Canada Research Chair in Ocean Law &amp; Governance, Schulich School of Law, Dalhousie University</p> <p><b>Comparing Canadian and US Species at Risk Laws and Policies</b></p> <ul style="list-style-type: none"> <li>• Peter Ross, Legal Counsel, Department of Justice Canada</li> <li>• Kristen Monsell, Oceans Legal Director &amp; Senior Attorney, Center for Biological Diversity</li> </ul>

	<p><b>Understanding Canadian Marine Protected Area (MPA) Designation and Management and Other Effective Area-based Conservation Measures (OECMs)</b></p> <ul style="list-style-type: none"> <li>• Hilary Ibey, Manager, Marine Conservation Operations, Fisheries and Oceans Canada (DFO)</li> <li>• Derek Fenton, Marine Planner, Fisheries and Oceans Canada (DFO) <i>(virtual)</i></li> </ul> <p><b>Understanding US Marine Protected Area (MPA) Designation and Management and Other Effective Area-based Conservation Measures (OECMs)</b></p> <ul style="list-style-type: none"> <li>• Lauren Wenzel, Director, National Marine Protected Areas (MPA) Center, Office of National Marine Sanctuaries, National Oceanic and Atmospheric Administration (NOAA)</li> </ul>
<b>10:40 – 11:10 AM</b>	Discussion
<b>11:10 – 11:25 AM</b>	Break
<b>11:25 – 12:35 PM</b>	<p><b>PANEL 2: The Role and Achievements of Existing Transboundary Cooperative Mechanisms</b></p> <p><b>Chair:</b> Michelle Nowlin, Co-Director, Duke Environmental Law and Policy Clinic, Duke University School of Law</p> <p><b>Canada (DFO) and US (NOAA) Climate and Fisheries Science Collaboration to Improve Our Response to Impacts of Climate Change on Marine Ecosystems</b></p> <ul style="list-style-type: none"> <li>• Vincent Saba, Northeast Fisheries Science Center, National Oceanic and Atmospheric Administration (NOAA)</li> <li>• Nancy Shackell, Senior Research Scientist, Ocean Ecology Section, Ocean and Ecosystem Sciences Division, Fisheries and Oceans Canada (DFO), Bedford Institute of Oceanography <i>(virtual)</i></li> </ul> <p><b>Ocean Tracking Network</b></p> <ul style="list-style-type: none"> <li>• Fred Whoriskey, Executive Director, Ocean Tracking Network (OTN), Dalhousie University</li> </ul> <p><b>Canada-US Species at Risk Working Group</b></p> <ul style="list-style-type: none"> <li>• Katherine Hastings, A/Section Head, Marine Species Recovery, Fisheries and Oceans Canada (DFO), Maritimes Region <i>(virtual)</i></li> </ul>

	<ul style="list-style-type: none"> <li>Jean Higgins, Protected Species Conservation Branch Chief, NOAA Fisheries (<i>virtual</i>)</li> </ul> <p><b>North American Marine Protected Areas Network (NAMPAN) and North American Commission for Environmental Cooperation</b></p> <ul style="list-style-type: none"> <li>Maria Morgado, Programme Management Officer, Ecosystems, UN Environment Programme (UNEP)</li> <li>Chantal Vis, Senior Marine Ecosystem Specialist, Conservation Programs Branch, Protected Areas Establishment and Conservation Directorate, Parks Canada</li> </ul>
<b>12:35 – 1:05 PM</b>	Discussion
<b>1:05 – 1:35 PM</b>	Lunch ( <i>catered</i> )
<b>1:35 – 2:45 PM</b>	<p><b>PANEL 3: Case Study of Efforts and Challenges in Recovering Transboundary Cetaceans (including North Atlantic Right Whale, Blue Whale, Fin Whale)</b></p> <p><b>Chair:</b> Steve Roady, Senior Lecturing Fellow, Duke University School of Law and Professor of Practice, Marine Science and Conservation, Nicholas School of the Environment, Duke University</p> <p><b>Canadian Scientific Overview</b></p> <ul style="list-style-type: none"> <li>Hilary Moors-Murphy, Research Scientist, Fisheries and Oceans Canada (DFO)</li> </ul> <p><b>Canadian Management Overview</b></p> <ul style="list-style-type: none"> <li>Melissa Landry, Senior Officer, Marine Mammals, Fisheries and Resource Management, Fisheries and Oceans Canada (DFO) (<i>virtual</i>)</li> </ul> <p><b>US Scientific Overview</b></p> <ul style="list-style-type: none"> <li>Danielle Cholewiak, Large Whale Program Lead, NOAA Fisheries, Northeast Fisheries Science Center, Protected Species Branch (<i>virtual</i>)</li> </ul> <p><b>US Management Overview</b></p> <ul style="list-style-type: none"> <li>Caroline Good, Cetacean and Pinniped Conservation NOAA Fisheries, Office of Protected Resources</li> </ul> <p><b>DFO and NOAA Collaboration in Fishing Gear Technologies</b></p> <ul style="list-style-type: none"> <li>Cathy Merriman, Senior Officer, Whales Team/National Programs/ Integrated Resource Management, Fisheries and Oceans Canada (DFO) (<i>virtual</i>)</li> </ul>

<b>2:45 – 3:15 PM</b>	Discussion
<b>3:15 – 3:30 PM</b>	Break
<b>3:30 – 4:30 PM</b>	<p><b>PANEL 4: Case Study of Efforts and Challenges in Recovering Transboundary Shark Species</b></p> <p><b>Chair:</b> Boris Worm, Marine Ecologist, Biology Department, Dalhousie University</p> <p><b>Canadian Scientific Overview</b></p> <ul style="list-style-type: none"> <li>• Heather Bowlby, Research lead for Canadian Atlantic Shark Research Laboratory, Fisheries and Oceans Canada (DFO)</li> </ul> <p><b>Canadian Management Overview</b></p> <ul style="list-style-type: none"> <li>• Jessica Kerwin, Senior Fisheries and Aquaculture Management Officer, Fisheries and Oceans Canada (DFO)</li> </ul> <p><b>US Scientific and Management Overview</b></p> <ul style="list-style-type: none"> <li>• Guy DuBeck, Branch Chief (Acting), Office of Sustainable Fisheries, Highly Migratory Species Management Division, National Oceanic and Atmospheric Administration (NOAA)</li> </ul> <p><b>NGO Perspective</b></p> <ul style="list-style-type: none"> <li>• Sonja Fordham, President, Shark Advocates International</li> </ul>
<b>4:30 – 5:00 PM</b>	Discussion

<b>Day 2.</b>	<b>Taking Stock (continued) and Enhancing Future Cooperation</b>
<b>8:30 – 9:00 AM</b>	<b>Breakfast</b> ( <i>light continental breakfast</i> )
<b>9:00 – 9:05 AM</b>	Opening remarks: ( <i>Steering Committee Member</i> )
<b>9:05 – 10:30 AM</b>	<p><b>PANEL 5: Charting International Law and Policy Coordinates</b></p> <p><b>Chair:</b> Linda Malone, Visiting Scholar, Environmental Law Institute</p> <p><b>International Responsibilities and Guidelines for Transboundary Marine Conservation (e.g., IUCN Guidelines for Conserving Connectivity Through Ecological Networks and Corridors (2020))</b></p>

	<ul style="list-style-type: none"> <li>• Barbara Lausche, IUCN/WCEL Specialist Group, Chair of the IUCN/WCPA Marine Connectivity Working Group, and Director of Marine Policy at Mote Marine Laboratory (<i>virtual</i>)</li> </ul> <p><b>Implications of the New BBNJ Agreement</b></p> <ul style="list-style-type: none"> <li>• Cymie Payne, Chair, IUCN World Commission on Environmental Law’s Specialist Group on Ocean Law</li> </ul> <p><b>The Role of Regulatory Integration in Transboundary Marine Spatial Planning</b></p> <ul style="list-style-type: none"> <li>• Sofia O’Connor, Staff Attorney, Environmental Law Institute (<i>virtual</i>)</li> <li>• Patience Whitten, Associate Director, Blue Growth Law and Governance Initiative, Ocean Program, Environmental Law Institute (ELI)</li> </ul> <p><b>Potential Roles for UNEP and Possible Future Linkages Under the Convention on Migratory Species</b></p> <ul style="list-style-type: none"> <li>• Melanie Virtue, Head of Aquatic Species Team, Convention of Migratory Species Group (CMS), UNEP (<i>virtual</i>)</li> </ul> <p><b>Transboundary Movement of Great Shearwater Seabirds and Their Potential to Use as a Tool for Dynamic Ocean Management</b></p> <ul style="list-style-type: none"> <li>• David Wiley, Marine Ecologist and Research Coordinator, Stellwagen Bank National Marine Sanctuary, National Oceanic and Atmospheric Administration (NOAA)</li> </ul>
<b>10:30 – 11:00 AM</b>	Discussion
<b>11:00 – 11:15 AM</b>	Break
<b>11:15 – 12:45 PM</b>	<p><b>PANEL 6: Enhancing Transboundary Marine Ecosystem Governance for Long-term Ocean Governance Integration: Lessons from Other Regions?</b></p> <p><b>Chair:</b> Jon Choi, PhD student, Nicholas School of Environment, Duke University School of Law</p> <p><b>UNEP’s Regional Seas Programs and Marine Species at Risk Protection</b></p> <ul style="list-style-type: none"> <li>• Olga Koubrak, PhD student, Marine &amp; Environmental Law Institute, Schulich School of Law, Dalhousie University</li> </ul> <p><b>The Incorporation of Climate Change into Marine Protected Area Planning: An International Comparison</b></p>

	<ul style="list-style-type: none"> <li>• Derek Tittensor, Senior Marine Biodiversity Scientist, United Nations Environment Programme World Conservation Monitoring Centre (UNEP-WCMC) and Biology Department, Dalhousie University (<i>virtual</i>)</li> <li>• Boris Worm, Marine Ecologist, Biology Department, Dalhousie University</li> </ul> <p><b>Towards the First High Seas Ecosystem Diagnostic Analysis - The Crucial Role of Migratory Species</b></p> <ul style="list-style-type: none"> <li>• David Freestone, Executive Secretary, Sargasso Sea Commission</li> </ul> <p><b>Indigenous Knowledge and Equitable Partnerships with Indigenous Peoples</b></p> <ul style="list-style-type: none"> <li>• Carolina Behe, Cultural Resource Coordinator with the Office of National Marine Sanctuaries, National Oceanic and Atmospheric Administration (NOAA Federal) (<i>virtual</i>)</li> </ul> <p><b>The Inter-American Sea Turtle Convention</b></p> <ul style="list-style-type: none"> <li>• Verónica Cáceres, Executive Secretary, Inter-American Sea Turtle Convention (IAC)</li> </ul> <p><b>Mobilizing Efforts for Improved Conservation and Management of Transboundary Marine Species at Risk: Sharks and Southern Resident Killer Whales in Changing Seas</b></p> <ul style="list-style-type: none"> <li>• Meaghan McCord, Marine Management Advisor, Office of the Executive Director (BC/Yukon Region), Parks Canada</li> </ul>
<b>12:45 – 1:15 PM</b>	Discussion
<b>1:15 – 1:45 PM</b>	Lunch ( <i>catered</i> )
<b>1:45 – 3:45 PM</b>	<b>Breakout Groups:</b> Constraints and Options for Enhancing Transboundary Scientific, Management, and Regulatory Cooperation
<b>3:45 – 4:00 PM</b>	Break
<b>4:00 – 4:45 PM</b>	Breakout Group Reporting
<b>4:45 – 5:00 PM</b>	Workshop Takeaways & Closing Remarks ( <i>Steering Committee Members</i> )
<b>Additional Information:</b>	We hope everyone will be able to join the breakouts either virtually or in-person as these sessions are critical for developing workshop recommendations.