



CONSULATE GENERAL OF  
THE UNITED STATES  
Toronto, Canada



# Lakebed 2030

## Event Schedule - Wednesday

Wednesday, September 29, 2021 (times reflect eastern time zone)			
Time	Topic	Event / Presentation	Presenter(s)
13:00 – 13:15		Lakebed 2030 Overview Keynote Speaker introduction	Nick Nissley, President <i>Northwestern Michigan College</i>
13:15 – 13:45	<b>Keynote</b>	Mission Possible: partnerships and advanced technologies as key components to Lakebed 2030	Nicole Raineault <i>Ocean Exploration Trust</i>
13:45 – 14:15	Mapping & Coastline	An Updated International Great Lakes Datum (IGLD): What Does This Mean for Your Field of Practice and Local Community?	Nicole Kruz <i>Lynker Technologies - NOAA's Center for Operational Oceanographic Products &amp; Services</i>
14:15 – 14:45	Archaeology & Technology	Maritime Heritage in America's Inland Seas: Results from a Multi-tiered Autonomous Vehicle-based Survey of Two Proposed Great Lakes National Marine Sanctuaries	Madeline Roth, Russ Green <i>NOAA Office of National Marine Sanctuaries</i> Art Trembanis <i>Univ. of Delaware</i>
14:45 - 15:00		Break	
15:00 – 15:30	Habitat & Fisheries	Mapping Benthic Geomorphology at Isle Royale National Park Using BRESS and CMECS	Nathaniel Penrod <i>National Park Service</i>
15:30 – 16:00	Mapping	A multiscale approach to BRESS and the integration into CMECS for Sleeping Bear Dunes National Lakeshore	Jamie Hoover <i>Front Range Community College</i>
16:00 – 16:30	Archaeology	Twenty Years of Remote Sensing Survey in Thunder Bay National Marine Sanctuary, An Overview of Current Capabilities and Prior Projects.	John Bright <i>NOAA Thunder Bay National Marine Sanctuary</i>
16:30 - 17:00	Mapping & Coastline	Seasonal Water Level Gauging for the International Great Lakes Datum Update	Nathan Wardwell <i>JOA Surveys, LLC</i>
17:00 - 17:30	Technology	I will be going over underwater wireless sensory mechanisms and past deployments as well as experimentation in regards to telemetry protocols.	Andrew Nassief <i>Stark Drones Corporation</i>
17:30 – 18:00	Technology	Teledyne Marine SeaBat T51-R - Revolutionary Technology. Outstanding Performance.	Uni Bull <i>Teledyne RESON</i>
18:00		End of Day 1	



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## Event Schedule- Thursday

Thursday, September 30, 2021 (times reflect eastern time zone)			
Time	Topic	Event / Presentation	Presenter(s)
13:00 – 13:15		Overview of the days Presentation Keynote Speaker introduction	Hans VanSumeren, CMarTech Northwestern Michigan College Director Water Studies Institute
13:15 – 13:45	<b>Keynote</b>	The digital transformation of Canadian hydrographic offices, and the corresponding contributions to Seabed 2030 and Lakebed 2030	Geneviève Béchard Director General, Canadian Hydrographic Service
13:45 – 14:15	Mapping	High Resolution Mapping in Thunder Bay National Marine Sanctuary: Results of the 2021 Ocean Exploration Trust Mobile Expedition	Erin Heffron Ocean Exploration Trust Stephanie Gandulla Thunder Bay Marine Sanctuary
14:15 – 14:45	Mapping	National Centers for Environmental Information (NCEI) Bathymetry Team - Data Contribution, Sharing, Accessibility, and Archive Overview	Georgie Zelenak University of Colorado Boulder, CIRES. NOAA NCEI
14:45 – 15:15	Mapping	NOAA Office of Coast Survey Great Lakes Update	Charles Wisotzkey NOAA / National Ocean Service, Office of Coast Survey
15:15 - 15:30		Break	
15:30 – 16:00	Mapping & Coastline	Updating Low Water Datum in the Great Lakes	Chris Zervas NOAA (NOS/CO-OPS)
16:00 – 16:30	Mapping & Coastline	Great Lakes Coastal and Nearshore Benthic Mapping	Brandon Krumwiede NOAA Office for Coastal Management
16:30 - 1700	Mapping	Ongoing Survey of R4207 Overwater Range	Phil Hartmeyer NOAA Thunder Bay National Marine Sanctuary
17:00 - 17:30	Mapping	Crowd-Sourced Bathymetry	Xiaofan Zhang Great Lakes Observing System
17:30 – 18:00	Mapping	Carbon Neutral Marine Mapping for the Great Lakes	Matt Holland XOCEAN
18:00		End of Day 2	



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## Event Schedule - Friday

Friday, October 1, 2021 (times reflect eastern time zone)			
Time	Topic	Event / Presentation	Presenter(s)
13:00 – 13:15		Lakebed 2030 – US Consulate Perspective Overview of the days presentation	Diane Del Rosio <i>Public Affairs Officer</i> <i>US Embassy, Toronto, CA</i>
13:15 – 13:45	Mapping & Technology	Mapping the Great Lakes using Long Endurance, Low Impact Uncrewed Survey Vehicles	Brian Connon <i>Saildrone</i>
13:45 – 14:15	Mapping & Coastline	Corps of Engineers National Coastal Mapping Program in the Great Lakes, Update	Nicholas Johnson, <i>USACE-JALBTCX</i>
14:15 – 14:45	Technology	Advanced Mapping Technology and Tools to Cost Effectively Evaluate Contaminated Sediment Projects	Shailesh K. Patel <i>Dredging &amp; Marine Consultants</i>
14:45 - 15:00		Break	
15:00 – 15:30	Archeology & Geology	A 9,000-year-old Landscape: Underwater Archaeology and Interdisciplinary Investigations on the Alpena-Amberley Ridge, Lake Huron	Ashley Lemke <i>University of Texas at Arlington</i>
15:30 – 16:00	Habitat & Fisheries	Side-scan sonar mapping to document lake trout spawning habitat at offshore reefs in southwest Lake Michigan	William Stacy-Duffy <i>Illinois Natural History Survey</i>
16:00 – 16:30	Habitat & Fisheries	High-Resolution Mapping of Spawning Reefs in Northern Lake Michigan	Sam Pecoraro <i>USGS</i>
16:30 - 1700	Mapping	Great Lakes prioritization	Karen Gouws Linden Brinks <i>Great Lakes Observing System</i>
17:00		Event close / Wrap-up Announcement: Next year's event location	Tim Kearns <i>Great Lakes Observing System</i>

Note: Time referenced is Eastern Time:

Revision date: 09.17.2021