

# GEOHAB 2021

## Marine Geological & Biological Mapping

Americas Node  
 3rd and 4<sup>th</sup> May 2021  
 (All times are given in Atlantic Daylight Time Zone – UTC -3hrs)

3rd May	DAY 1	
12:00	Craig Brown and Brian Todd	Welcome remarks
12:10	Sponsors comments	
<b>Session Chair: Katleen Robert</b>		
<b>Session Theme: Shallow Water Habitats</b>		
12:20	Nkouamen Nemzoue et al.	Mapping and characterisation of the marine geohabitats of the eastern continental shelf of Ceará, Brazil
12:40	Sneep et al.	Mapping and characterizing eelgrass beds in Placentia Bay and Trinity Bay, Newfoundland and Labrador, Canada
13:00	Overly and Lecours	Mapping queen snapper ( <i>Etelis oculatus</i> ) suitable habitat in Puerto Rico using ensemble species distribution modeling
13:20	de Oliveira N et al.	Shelf-incised valleys as mesophotic habitats in a tropical mixed shelf
13:40	Charmley et al.	Seasonal change between benthic habitat maps in sub-Arctic ecosystems
14:00	Gomes et al.	Characterization of ichthyofaunal geohabitat: a preliminary approach for a Marine Protected Area - the Alcatrazes Archipelago region, São Paulo, Brazil
14:20-15:00	<b>BREAK</b>	
<b>Session Chair: Helenice Vital</b>		
<b>Session Theme: Habitat Modelling</b>		
15:00	Mackin-McLaughlin et al.	Comparing the accuracy of two machine-learning algorithms in predicting benthic invertebrate species assemblages across coastal Placentia Bay, Newfoundland, Canada
15:20	McHenry et al.	Modeling the biodiversity enhancement value of seagrass beds
15:40	Nemani et al.	A multi-scale feature selection approach for predicting benthic communities
16:00	Meijer et al.	Using maximum likelihood to maximize efficiency: semi-automating seabed classification on the British Columbia Coast
<b>Session Chair: Helenice Vital</b>		
<b>Session Theme: Habitats in the Anthropocene</b>		
16:20	Fulton et al.	Retrieval of abandoned, lost, and discarded fishing gear in southwest Nova Scotia, Canada: environmental and economic impacts to the commercial lobster industry
16:40	Goes et al.	A sensitivity seafloor index to oil spills response plans in tropical marine protected areas
17:00-18:00	<b>VIRTUAL ICEBREAKER</b>	

<b>4th May</b>	<b>DAY 2</b>	
12:00	Craig Brown and Brian Todd	Day 2 greeting
12:05	Sponsors comments	
<b>Session Chair: Tereza Araújo</b> <b>Session Theme: Mapping Strategies</b>		
12:10	Menandro et al.	Exploring multifrequency backscatter response in soft bottom habitat using a three-front approach
12:30	Ilich et al.	Mapping offshore hardbottom areas on the west Florida shelf using multiple spatial scales of analysis
12:50	Haar et al.	Harmonizing multi-source backscatter data using bulk shift approaches to generate regional seabed maps: Bay of Fundy
13:10	Boni et al.	Reef and inter-reefal mapping using automated supervised classification
13:30	Espriella et al.	Optimizing intertidal habitat classification at multiple scales using open-source tools
13:50	Leite et al.	Applying semi-automated methods for identifying seabed circular depressions at the Brazilian outer-shelf
14:10	Da Silveira et al.	Coral reef mapping using satellite imagery: a contribution for seascape mapping
<b>14:30-15:00</b>	<b>BREAK</b>	
<b>Session Chair: Narelle Maia de Almeida</b> <b>Session Theme: Mapping Strategies (cont)</b>		
15:00	Sanojca	Integrating bathymetric LiDAR, aerial imagery, and machine learning to classifying eel grass and seaweed beds for marine protected area development in the Gulf of St. Lawrence Estuary, Canada
15:20	Hintenlang et al.	Nadir and oblique imaging to observe intertidal oyster populations using UAS photogrammetry
15:40	Andrade et al.	Evaluation of images obtained with the PlanetScope system for bathymetry estimation in optically shallow waters
<b>Session Chair: Narelle Maia de Almeida</b> <b>Session Theme: Deep Water Habitats</b>		
16:00	Oxton et al.	High-resolution habitat mapping of cold-water coral and sponges in the Northern Gulf of Mexico
<b>Session Chair: Narelle Maia de Almeida</b> <b>Session Theme: Seabed Geomorphology</b>		
16:20	Costa et al.	Submarine morphological features of the continental slope adjacent to the Jaguaribe River, Brazilian Equatorial Margin
16:40	Silva et al.	A new geomorphological insight at Canal do Varador, Amazon Continental inner shelf, Brazil
17:00	Gary Greene	Closing remarks
17:15 – Close of Conference		