

# GEOHAB 2021

## Marine Geological & Biological Mapping

Europe & Africa Node

5<sup>th</sup> May 2021

08.55	<b>Welcome Remarks</b>	
	<b>Chairs</b>	
<b>Slot 1</b>	<b><i>Peter Harris and Federica Fogliani</i></b>	
9:00-9:15	Swanborn et al.	Mapping geomorphological drivers of mesophotic coral ecosystems around Seychelles
9:15-9:30	Appah et al.	Environmental Controls of Benthic Megafauna Distributions in the Cold-Water Coral rich habitat of the upper Porcupine Bank Canyon, NE Atlantic
9:30-9:45	Price et al.	Fine-Scale Heterogeneity of a Cold-Water Coral Reef and Its Influence on the Distribution of Associated Taxa
9:45-10:00	Curtis et al.	Investigating inter-user variability in seabed image annotation and its impact on cold-water coral monitoring programmes
10:00-10:15	de Oliveira et al.	3D Classification of Cold-Water Coral Reefs: A Comparison of Classification Techniques for 3D Reconstructions of Cold-Water Coral Reefs and Seabed
<b>10:15-10:30</b>	<b>BREAK + video from sponsor Fugro</b>	
	<b>Chairs</b>	
<b>Slot2</b>	<b><i>Fantina Madricardo and Aarno Kotilainen</i></b>	
10:30-10:45	Castellan et al.	A simple method to estimate light intensity at seafloor: applications in the study of Mediterranean benthic mesophotic ecosystems
10:45-11:00	Minelli et al.	Semi-Automated Data Processing and Semi-Supervised Machine Learning for the Detection and Classification of Water-Column Fish Schools and Gas Seeps with a Multibeam Echosounder
11:00-11:15	Roche et al.	Quantifying sediment plumes induced by human activities by using MBES and SBES water column data combined with in situ measurement and water sampling: feasible?
11:15-11:30	Vežovic et al.	Beyond Pretty Pictures: A Methodical Approach For Generating 3D Models Of Hydrothermal Vents In The Subantarctic By Utilising Structure From Motion (SfM)
11:30-11:45	Harris et al.	Exposure of coastal benthic habitats to river-sourced plastic pollution
<b>11:45-11:50</b>	<b>BREAK</b>	

<b>Chairs</b>		
<b>Slot 3</b>	<b>Federica Foglini and Hayley Cawthra</b>	
11:50-12:05	Montereale-Gavazzi et al.	What lies beneath the busiest shipping lane of the world? Stony reefs in the Belgian Continental Shelf: a quantitative mapping approach.
12:05-12:20	Le Bas	GIS tools for marine habitat mapping “made easy”.
12:20-12:25	Deleu et al.	A stable reference area for multibeam bathymetry and backscatter: KWINTE, a dedicated quality control area in the Belgian North Sea
12:25-12:30	Makori et al.	Acoustic Seabed Classification Using the Single Beam Echo sounder System (SBES): A Case Study on the Kenyan Territorial Zone
<b>12:30-13:30</b>	<b>LUNCH BREAK + video from sponsor R2Sonic</b>	
<b>Chairs</b>		
<b>Slot 4</b>	<b>Fantina Madricardo and Aarno Kotilainen</b>	
13:30-13:45	Summers et al.	A scalable, supervised classification of seabed sediment waves: using an object-based image analysis approach
13:45-14:00	Hansen et al.	Classification of boulders in coastal marine environments using random forest machine learning on an imbalanced data set from topobathymetric LiDAR
14:00-14:15	Yamada et al.	Metadata Enhanced Feature Learning for Efficient Interpretation of AUV Gathered Seafloor Visual Imagery
14:15-14:30	Sañé et al.	Characterization Of Rhodolith Beds-Related Backscatter Facies From The Western Pontine Archipelago (Mediterranean Sea)
14:30-14:45	Barette et al.	Mapping gradients in seafloor characteristics in the Belgian part of the North Sea: preliminary findings and way forward
<b>14:45-15:00</b>	<b>BREAK</b>	
<b>Chairs</b>		
<b>Slot 5</b>	<b>Fantina Madricardo and Andrea Fiorentino</b>	
15:00-15:15	Dorokhova et al.	Landscape mapping and ichnological studies in a deep-water gateway, Discovery Gap, NE Atlantic
15:15-15:30	Wardell	Broad-scale Landscape Mapping of the Commonwealth of Dominica and surrounding Islands
15:30-15:45	Leontev et al.	New data about benthic landscapes of the eastern Gulf of Finland (Baltic Sea): first results of ADRIENNE project
15:45-15:50	Hartmann et al.	4S - The EU project to map and monitor shallow water benthic and bathymetry
15:50-15:55	Castle et al.	A broad-scale seabed habitat map for Europe – EUSeaMap 2019 and plans for 2021
<b>15:55-16:05</b>	<b>BREAK</b>	

<b>Slot 6</b>	<i>Chairs</i> <i>Daria Ryabchuk and Aarno Kotilainen</i>	
16:05-16:20	Franken et al.	Wadden Mosaic: Understanding the ecological functioning of the subtidal Dutch Wadden Sea
16:20-16:35	D'Urban Jackson et al.	Mapping temperate reef habitats in high energy waters
16:35-16:50	Karpin et al.	Streamlined bedforms of the Western Estonian Shelf - implications for ice-flow reconstruction
16:50-17:00	<b>Discussions and Closure</b>	