

The 52nd International Liège colloquium on ocean dynamics

ONLINE event (ZOOM), May 17th -21st 2021

PROGRAM

Monday, May 17th, 2021				
13:30 -13:40	Marilaure Grégoire	Welcome note	Uliège	Belgium
13:40-13:55	Keynote: Karline Soetaert	Anthropogenic and natural impacts on North Sea sediments	NIOZ	The Netherlands
Session 1 – Assessing the impact of sedimentary changes on the coastal ocean physics, biodiversity and biogeochemistry.				
Chairs: Ulrike Braeckman , Karline Soetaert				
13:55-14:10	Keynote: Martin Solan			
14:10-14:20	Annabelle Dairan, Olivier Maire, Guillaume Meynard, Anais Richard, Tiffany Rodolfo-Damiano, Carl Van Colen, Francis Orvain	Sediment dynamics: can we dismantle the effect of bioturbating species on sediment erodibility from their impact on sediment roughness?	University of Caen Normandie	France
14:20-14:30	Federico Falcini, Jaime Pitarich, Salvatore Marullo, Annalisa Di Cicco, William Nardin, Vittorio Brando	Remote sensing analysis of the Tiber River sediment plume (Tyrrhenian Sea): unravelling erratic vs. persistent events and their suspended sediment characteristics from spectral properties	CNR	Italy
14:30-14:40	Xiaoyu Fang, Cuzzoli Francesco, Antony Knights, Tom Moens, Karline Soetaert, Carl Van Colen	Upscaling benthos-mediated ecosystem functioning to assess anthropogenic change in the Westerschelde estuary	Ghent University - Marine Biology Research Group	Belgium
14:40-14:50	Stéphanie Ponsar, Geneviève Lacroix, Dries Van den Eynde	Impact of the sea level rise on the seabed morphology of the Belgian Continental Shelf	Royal Belgian Institute of Natural Sciences	Belgium
14:50-15:00	Agustín Sanchez-Arcilla, Manuel Espino, Vicente Gracia, Marc Mestres, Marta Fernandez-Pedra	Morphodynamic control on water renovation and quality. Modelling and observations.	Laboratori d'Enginyeria Marítima (LIMUPC-BarcelonaTech), Barcelona	Spain
15:00 - 15:10	Daniel Thewes, Emil Stanev, Oliver Zielinski	Long term analysis of the North Sea light climate, using a 3D coupled ecosystem model	Carl-von-Ossietzky-Universität Oldenburg/ICM	Germany
15:10-15:20	Elise Toussaint, Ulrike Braeckman, Emil De Borger, Karline Soetaert, Jan Vanaverbeke	How are biogeochemical processes impacted in sediment disturbed by human activities?	Royal Belgian Institute of Natural Sciences	Belgium
15:20 - 15:30	Chunyang Zhou, Camille Gaulier, Marline Leermakers, Willy Baeyens, Yue Gao	Advances in understanding the mobilization of trace metals and dissolved sulfide in Belgian coastal and Gotland basin sediments	Vrije Universiteit Brussel	Belgium
15:30 - 15:50	Panel Discussion: Q&A, selected topics discussion			
15:50-16:10	Break			
Session 2 – Science base for marine spatial planning.				
Chairs: Steven Degraer, Antje Gimpef				
16:10 - 16:25	Keynote: Vanessa Stelzenmüller			
16:25 - 16:35	Clement Garcia, Ruth Parker , Silke Kroege, John N. Aldridge, Stefan G. Bolam, Alex Callaway, Jamin A. Godbold, Carolyn Graves, Rachel Hale, Martin Solan	Integrated assessments to support management of a multifunctional seabed	Thünen Institute Centre for Environment, Fisheries and Aquaculture Science (Cefas)	Germany United Kingdom
16:35 - 16:45	Lancelot Blondeel, Gert Van Hoey, Ellen Pecceu	Supporting tools for the Belgian fishery sector towards EBM	Flanders Research Institute for Agriculture, Fisheries and Food	Belgium
16:45 - 16:55	Galina Kolyuchkina, Olga Bykhalova, Vitaly Symon, Ulyana Simakova, Vadim Mokievsky, Nelli Sergeeva, Ivan Lyubimov, Oleg Podymov, Alexander Basin, Alexander Ostrovskii	Plan of National Reserve Utrish expansion in the NE Black Sea	Shirshov Institute of Oceanology Russian Academy of Sciences	Russia
16:55 - 17:05	Inne Witthouck, Andronikos Kafas, Robert Watret, Rachel Shucksmith, Beth Moust, John Duran, Paul Tett	Exploring spatial decision support techniques for siting offshore energy developments	NAFC Marine Centre UHI	United Kingdom
17:05 - 17:15	Annamie Volckaert, Veronique Adriaenssens	Coherent networks of marine protected areas	ARCADIS	Belgium
17:15 - 17:25	Patrick De Klerck	A holistic framework for ecosystemservices using the quintuple helix approach	Flemish Gov. / Territorial Development Program for the Flemish Coastal Region	Belgium
17:25 - 17:45	Panel Discussion: Q&A, selected topics discussion			
17:45	End of the day			
Tuesday, May 18th, 2021				
WinMon.BE side event : Environmental impact of offshore wind famrs				
9:00 - 9:05	Minister/Cabinet of North Sea	Welcome		
9:05 - 9:15	Brigitte Lauwaert	Introduction : Setting the Scene	RBINS	Belgium
9:15 - 9:40	Introduction Keynote: Steven Degraer	Using a decade of WinMon.BE results to plan for the future	RBINS	Belgium
9:40 - 9:50	Mirta Zupan	Mytilisation / silmification of the hard substrate fauna: the importance of long-term datasets for environmental impact assessment	RBINS	Belgium
9:50-10:00	Bob Rumes	Evolution of piling activities because of increasing insights in associated effects	RBINS	Belgium
10:00-10:10	Eric Stienen and Nicolas Vanermen	Innovative approaches and updated survey strategy to assess the impact of OWFs on seabirds	INBO	Belgium
10:10-10:25	Q&A			
10:25-10:35	Break			
10:35-10:45	Annelies De Backer	Possible conflicts between wind energy at sea and nature conservation	ILVO	Belgium
10:45-10:55	Ulrike Braeckman	Functioning of the benthic ecosystem: organic enrichment and biogeochemical cycling	Ugent	Belgium
10:55-11:10	Q&A			
10:55-11:10	Panel Discussion: 'WinMon.BE: ready for accommodating the future of OWFs?'			
11:55-12:00	Steven Degraer	Closing remarks	RBINS	Belgium
Session 3 - Assessing the impact of marine structures on the coastal ocean physics, biodiversity and biogeochemistry.				
Chairs: Jan Vanaverbeke, Johan Van der Molen				
13:30-13:45	Keynote:Drew Carey		Inspire Environmental	United States
13:45-13:55	Michela De Dominicis, Justin Wolf, Dina Sadykova, Beth Scott, Alexander Sadykov, Rory O'Hara Murray	Effects of Climate Change and Tidal Stream Energy Extraction on the ecosystem of a shelf sea.	National Oceanography Centre Royal Belgian Institute of Natural Sciences	
13:55-14:05	Ninon Mavraki, Ulrike Braeckman, Steven Degraer, Tom Moens, Jan Vanaverbeke	Feeding ecology of organisms occurring at offshore wind farms	Royal Belgian Institute of Natural Sciences	Belgium
14:05-14:15	Joop W.P. Coolen, Oliver Bittner, Floor M.F. Driessen, Udo van Dongen, Wim de Groot, Joost Bergama, Babeth van der Weide	The effect of removal of a concrete gas platform structure on benthic communities	Wageningen Marine Research	Germany
14:15-14:25	Geneviève Lacroix, Francis Kerckhof, Léo Barbut, Laurence Vigin, Ise De Mesel, Steven Degraer	How is connectivity pattern of hard substrate species impacted by artificial structures in the North Sea?	Royal Belgian Institute of Natural Sciences	Belgium
14:25-14:35	Jessica Salasón, Baptiste Vivier, Maxime Navon, Pascal Claeuquin, Aurore Raoux, Jean-Philippe Pezy, Aurélie Foveau, Sylvain Ploch, Jean-Claude Dauvin	Multidisciplinary and multi-scale assessment of artificial reefs in tidal system	University Paul Valéry, Montpellier 3, CNRS UMR 5172, Laboratoire CEFE	France
14:35-14:45	Jean-Baptiste CHAMPILOU, Agnès Baltzer, Grégoire M. Maillet, Marine Reynaud, Maria Pia Nardelli, Edouard Metzger	Assessing the impact of the installation of an offshore wind-farm electric cable on a Haploopsis settlement.	CNRS : UMR 6112, LPG-BIAF – UFR Sciences, Université d'Angers	France
14:45-14:55	Anna Reese, Nathalie Voigt, Debora Obergfell, Tristan Zimmermann, Hans-Burkhard Erbsloh, Torben Kirchgeorg, Ingo Weinberg, Johanna Ingelher, Daniel Proffrock	Corrosion protection of offshore wind farms: An emerging contamination source for the marine environment?	1 Helmholtz-Zentrum Geesthacht 2 Universität Hamburg	Germany
14:55-15:05	Evgeny Ivanov, Arthur Capet, Ninon Mavraki, Jan Vanaverbeke, Steven Degraer, Alexander Barth, Eric Delhez, Karline Soetaert, Marilaure Grégoire	Impact assessment of biofouling communities of Belgian offshore wind farms on the sediment bed using a coupled model	MAST, University of Liège	Belgium

15:05-15:25		Panel Discussion: Q&A, selected topics discussion			
15:45-18:00		Lighting Talks and Poster session (Gather)			
18:00		End of the Day			
Wednesday, May 19th, 2021					
Session 4 - Indicators definition for ocean health assessment in connection with SDG14 and GES assessment.					
Chairs: Gert Van Hoey, Angel Borja					
13:30-13:45	Keynote: Angel Borja			AZTI	Spain
13:45-13:55	Åhne Goffart, Sylvain Coudray	The challenge of using phytoplankton composition for Mediterranean ecosystem health assessment		University of Liège	Belgium
13:55-14:05	Johan Nilsund, Antonia Nyström Sandman, Mats Blomqvist, Clare Bradshaw, Thomas Slavelev, Oscar Törnqvist, Samuli Korpinen	Cumulative impacts and seafloor integrity in Swedish marine waters		AquaBiota Water Research	Sweden
14:05-14:15	Dimitry Van der Zande, Aida Alvera-Azcárate, Charles Troupin, João Felipe Cardoso dos Santos	Eutrophication monitoring in coastal waters: taking advantage of the synergy in multi-scale satellite products		Royal Belgian Institute of Natural Sciences	Belgium
14:15-14:25	Galina Kolyuchkina, Ivan Lyubimov, Vitaly Syomin, Nelli Sergeeva, Alexander Basin, Alexander Ostrovski	Functional structure of the Black Sea macrozoobenthos as a key indicator for assessing the marine ecosystem health		Shirshov Institute of Oceanology	Russia
14:25-14:35	Fallen Fesljens, Naomi Breine, Nene Lefebvre, Jan Wittoeck, Gert Van Hoey	Biological trait modality responses to different anthropogenic pressures in the Belgian part of the North Sea		ILVO	Belgium
14:35-14:45	Merina Espinasse, Per Fauchald, Erik Mikkelsen, Erik Olsen, Vera Hausner, Sigrid Engen, Jamie Afferbach	Developing The Ocean Health Index for Northern Norway		Institute of Marine Research	Norway
14:45-14:55	Marilaure Grégoire, Arthur Capet, Lei Chou, Nathalie Fagel, Audrey Plante, Karline Soetaert, Adrian Teusa, Luc Vandenbulcke	From species characteristics to ecosystem functions: a trait-based distribution model for upscaling the macrobenthos role in benthic-pelagic coupling over the Black Sea continental shelf		University of Liège	Belgium
14:55-15:05	Oliver Beauchard	Developing an trait-based indicator of marine benthic vulnerability to bottom trawl disturbance		NIOZ	The Netherlands
15:05-15:15	Alexandra Pavlidou, Eleni Rousseliaki, Nikolaos Katsiras, Nomiki Simbura	Assessment of the ecological and eutrophication status of the coastal waters in Aegean Sea, Eastern Mediterranean Sea, in relation to anthropogenic pressures		Hellenic Centre for Marine Research	Greece
15:15-15:25	Laure Van den Bulcke, Annelies Debacquer, Kris Hostens, Willem Waageman, Sara Maes, Sofie Derycke	Implementation of DNA metabarcoding in environmental impact assessments		ILVO	Belgium
Panel Discussion: Q&A, selected topics discussion					
Break					
Session 5 - Multiple stressors, multi-use, cumulative effect assessment, including climate change					
Chairs: Denise Breitburg, Salvatore Arico					
16:05-16:20	Keynote: Rashid Sumalla			Fisheries Economics Research Unit, University of British Columbia	Canada
16:20-16:30	Jesper Andersen	Relative impacts of multiple stressors in Danish marine waters		NIVA Denmark Water Research	Denmark
16:30-16:40	Alberto Borges, Colin Royer, Jon Lapeyra Martin, Willy Champenois, Mary Scranton, Nathalie Ouyens	Productivity and temperature as drivers of seasonal and spatial variations of dissolved methane in the Southern Bight of the North Sea, leading to a response from eutrophication and heatwaves.		University of Liège	Belgium
16:40-16:50	Viviana Otero, Klaas Deneudt, Jonas Morteimans, Maarten De Rijcke, Koen Sabbe, Wim Vyverman, Michiel Vandegehuchte and Gert Everaert	Drivers of plankton biomass dynamics at the Belgian Continental Shelf		Flanders Marine Institute (VLIZ)	Belgium
16:50-17:00	Jozef Skakala, David Ford, Jörn Bruggeman, Stefano Ciavatta	Towards a better understanding of the changing North Sea biogeochemistry through the assimilation of multi-platform observations into the ecosystem model		Plymouth Marine Laboratory	United Kingdom
17:00-17:10	Daji Huang, Jianfang Chen, Feng Zhou, Xiaobo Ni, Jiliang Xuan, Dingyong Zeng, Dewang Li, Kui Wang, Bin Wang, Zhibing Jiang	Multiple marine environmental and ecological hazards under multi-stresses in the Yangtze River Estuary, China		Key Lab of Conservation and Restoration of Tropical and Subtropical Marine Natural Resources, MNR	
17:10 - 17:20	Nathalie Niquel, Frida Ben Rais Lasramm, Emma Araignous, Pierre Bourdaut, Ghassen Halouani, Tarek Hattab, François Le Loch, Boris Leroy, Quentin Nogues, Aurèle Raoux, Georges Safi, Ching-Maria Villaverde, Jean-Claude Dauvin	Promoting an ecosystem approach of marine renewable energy: a set of modelling tools for studying cumulative impacts on ecosystem functioning, based on the bay of Seine case study		CNRS / University Caen Normandy, BOREA	France
17:20 - 17:40	Holger Brix, Jørgen Berge, Julia Boike, Philipp Fischer, Haakon Hop, Marion Maturilli	Polar extremes – short-term dynamics in an Arctic coastal ecosystem under climate change		Helmholtz-Zentrum Geesthacht	Germany
Panel Discussion: Q&A, selected topics discussion					
18:00		End of the Day			
Thursday, May 20th, 2021					
Session 5 - Multiple stressors, multi-use, cumulative effect assessment, including climate change					
Denise Breitburg, Salvatore Arico					
13:30-13:40	Karen Wild-allen, SILMA Team	Synthesis of multiple environmental and social economic stressors in a decision support tool to improve sustainable deployment of coastal aquaculture in Chile		CSIRO Oceans & Atmosphere	Australia
13:40-13:50	Carl Van Colen, Ez Zin Ding, Mark Briffa, David Wethey, Emmanuel Abatih, Tom Moens, Sarah Woodin	Clam feeding plasticity alleviates herbivore vulnerability to ocean warming and acidification		Ghent University - Marine Biology Research Group	Belgium
13:50-14:00	Ellen Vlamincx, Carl Van Colen, Jan Vanaverbeke, Tom Moens	Burrowing macrofauna modifies climate change effects on sediment metabolism		Ghent University	Belgium
14:00-14:10	Xavier Desmit, Arja Nohé, Alberto Borges, Theo Prins, Dimitry Van der Zande, Koen Sabbe	Changes in chlorophyll concentration and phenology in the North Sea in relation to de-eutrophication and sea surface warming		Royal Belgian Institute of Natural Sciences	Belgium
14:10-14:20	Roobaert Alizée, Gouven G. Lanuelle, Enhui Liao, Peter Landschützer, Nicolas Gruber, Laure Resplandy, Lei Chou, Pierre Regnier	The spatiotemporal dynamics of the sources and sinks of CO2 in the global coastal ocean		ULB	Belgium
14:20-14:30	Larissa K. Schultze, Lucas M. Merckelbach, Nils Christiansen, Ute Daewel, Jochen Horstmann, Siegfried Raasch, Corinna Schrum, Burkard Baschek, Jeffrey R. Carpenter	Changes in stratification and mixing in the wake of offshore wind farm foundations and possible effects on the marine environment		Helmholtz-Zentrum Geesthacht	Germany
14:30-14:40	Justin Ylano, Emil de Borge, Sarah O'Flynn, Chiu Cheng, Karline Soetaert	Disentangling the biogeochemical effects of marine electro-fisheries		NIOZ	The Netherlands
14:40-14:50	Vethamony P. Veerasingam S., Jassim A Al-Khayat, Azenith B. Castillo, Clement TP	Distribution, chemical characterization and source identification of tarballs along the Qatar coast		Qatar University	Qatar
14:50-15:00	Agnieszka Indiana Olbert, Jennifer Kirkpatrick	Mechanisms and impacts of multiple flood drivers on future coastal urban flooding		National University of Ireland Galway	Ireland
Panel Discussion: Q&A, selected topics discussion					
Break					
Session 6 - Ecosystem Services					
Chairs: Arthur Capet, Farid Dahdouh-Guebas					
15:40-15:55	Keynote: Helen Ding	Moderated by Steven Degraer		World Resources Institute	United States
15:55-16:05	Kathrin Van der Biebt, Patrick Meire, Annelies Boerema	Assessing co-benefits of marine ecosystem-based measures – methodology for the Belgian coastal ecosystem		Universiteit Antwerpen	Belgium
16:05-16:15	Bryce Van Dam, Helmut Thomas, Ashley Smyth, Christian Lopes, Mona Norbistrath, Nate Treblin	Blue carbon and alkalinity in contrasting coastal environments		Helmholtz-Zentrum Geesthacht	Germany
16:15-16:25	Leduc M., Fontaine Q., Gobert S., Monnier B., Abadie A., Lejeune P.	Posidonia oceanica meadows: A unique Blue Carbon sink		STARESO	France
16:25-16:35	Jules Pecquet, Maud Mouchet, Sylvie Campagne, François Guevert, Frida Ben Rais Lasram	A new methodological framework for assessing future Ecosystem Services provided by kelps along the French coasts in a context of climate change		Univ. Littoral Côte d'Opale, Univ. Lille, CNRS, UMR 8187, LOG, Laboratoire d'Océanologie et de Géosciences	France
Panel Discussion: Q&A, selected topics discussion					
Session 7 - Assessing the impact of land-based pressures on the coastal environment, river-estuary-coastal ocean coupling.					
Chairs: Diego Macias, Marilaure Grégoire					
16:50-17:05	Keynote: Marjorie A.M. Friedrichs			Virginia Institute of Marine Science	United States
17:05-17:15	Jianping Gan, Minhan Dai	On hypoxia along the coastal transition zone off Pearl River Estuary and Hong Kong		Hong Kong University of Science and Technology	Hong Kong
17:15-17:25	Aida Alvera-Azcárate, Charles Troupin, Alexander Barth, Jean-Marie Beckers, Dimitry Van der Zande	Synergistic use of Sentinel-2 and Sentinel-3 data in the North Sea using DINEOF: multiscale analysis and cloud shadow detection		University of Liège	Belgium
17:25-17:35	Chiara Lapucci, Massimo Perna, Fabio Maselli, Valentina Vannucchi, Alberto Orlotiani, Carlo Brandini	OLCI and MODIS data as a proxy for Ostreopsis ovula harmful bloom favorable conditions occurrence in Ligurian and North Tyrrhenian sea		CNR	Italy

17:35-17:45	Philip Wolfram, Steven Brus, Mark Petersen, Zhendong Cao, Darren Engwirda, Mathew Mairud, Xylar Asay-Davis, Andrew Roberts, Jon Wolfe, Tian Zhou, Gautam Bisht, Zeli Tan, Ruby Leung	Global to coastal multiscale modeling of the land-river-ocean continuum in the US DOE Energy Exascale Earth System Model	Los Alamos National Laboratory	United States
17:45		End of the Day		
Friday, May 21st, 2021				
Session 7 - Assessing the impact of land-based pressures on the coastal environment, river-estuary-coastal ocean coupling.				
Chairs: Diego Macias, Marilaure Grégoire				
13:30-13:40	Breitburg Denise, Grégoire Marilaure, Oeschles Andreas, Isensee Kirsten and the GO2NE IOC network	GO2NE: the IOC Global Oxygen Network	Smithsonian	United States
13:40-13:50	Pierr O., Dawewl U., Friedland R., Garcia-Gorritz E., Macias Moy D., Maljutenko I., Mladinove-Marinoza S., Muller-Karulis B., Neumann T., Stips A.	Ensemble modelling of the Baltic Sea ecosystem to assess scenarios for management	European Commission, Joint Research Centre	Belgium
13:50-14:00	Francisco Campuzano, Manuela Juliano, Ramiro Neves	Coupling watersheds, estuaries and regional seas through numerical modelling for western Iberia: regional sea surface salinity patterns	MARETEC - Instituto Superior Técnico - Portugal	Portugal
14:00-14:10	De Dominicis M., Wolf J., Jevrejeva S., Zheng P., Hu Z., Li M.	Future coastal flooding scenarios and ecosystem-based coastal defence solutions in the world's largest urban area	National Oceanography Centre	Belgium
14:10-14:20	Joko Sampurno, Valentin Vallays, Randy Ardianto, Emmanuel Hanert	Modelling the hydrodynamics of the Kapuas river delta and assessing the risk of flooding in the Pontianak City	UCLouvain	Belgium
14:20-14:30	Jana Friedrich, Adrian Stenica, DANUBIUS-PP Consortium	DANUBIUS-PP: An ESFRI research infrastructure for healthy River-Sea Systems	Helmholtz-Zentrum Geesthacht	Germany
14:30-14:40	Christoph Siebert, Onur Kertimoglu, Hermann Joseph Leinhardt, Wera Lesiak, Annika Graze	Implementation of the Marine Strategy Framework Directive for the North Sea, defining threshold levels for the OSPAR common	Helmholtz-Zentrum Geesthacht	Germany
14:40-14:50	Gouven Laruelle, Audrey Marescaux, Vincent Thieu, Josette Garnier	Coupled modeling approach for carbon and nutrients cycling along the river/estuarine transition: case study of the Seine	Université Libre de Bruxelles	Belgium
14:50-15:00	Ryan Searcy	Implementation of an automated beach water quality nowcast system at ten California oceanic beaches	Stanford University	United Kingdom
15:00-15:15		Break		
15:15-15:25	Claudio Cardoso, Rui Vieira, Ana Oliveira, Jesus Reis, Ricardo Faria, Cátia Azevedo,	Air-sea-land modelling framework to assess the impacts of river runoff in the transport and retention of marine litter around Madeira island	ARDITI - Agência Regional para o Desenvolvimento da Investigação Tecnológica e Inovação	
15:25-15:35	Johannes Pein, Ute Dawewl, Emil Stacey, Connor Schrum	Response of Ebe estuary ecosystem to changed riverine nitrogen loads	Helmholtz-Zentrum Geesthacht	Germany
15:35-15:45	Lisa Lucas, Jian Shen, Eric Deleersnyder	Timescale methods for assessing biophysical interactions in aquatic ecosystems: an attempt at bringing order to the chaos	United States Geological Survey	United States
15:45-15:55	Onur Kertimoglu, Christoph Siebert	Sensitivity of a coastal system to riverine discharges: modulation by meteorological conditions and nutrient loading	Helmholtz-Zentrum Geesthacht	Germany
15:55-16:05	Anne Vallette, Fatimatou Coulibaly, Stephen Emsley	Marine Litter tracking and forecast of stranding in the English Channel, the North Sea, and the North Atlantic Shelf of the European Union and United Kingdom	ARGANS	France
16:05-16:15	Xavier Desmit, Vincent Thieu, Francisco Campuzano, Valérie Dulière, Luis Lassaletta, Alain Ménéguen, Marie Silvestre, Josette Garnier, Ligia Pinto, João Sobrinho, Ramiro Neves, Gilles Billen, Genevieve Lacroix	Social, economic and cultural options to recover from eutrophication	DO Natural Environment, Royal Belgian Institute of Natural Sciences	Belgium
16:15-16:25	P.K. Sarath, Damien Cardinal, Jean Rottier, Arnaud Dapogny, Laurent Ruiz, Benjamin Baud, V.V.S.S. Sarma, B.S.K. Kumar, Veronique Vauzy, Ramananda Chakrabarti	Seasonal and land use variability of silicon along the land to ocean continuum in groundwater and estuary in India	LOCEAN IPSL - Sorbonne Université	France
16:25-16:35	Jens Terhaar, Ronny Lauerwald, Pierre Regnier, Nicolas Gruber, Laurent Bopp	Delivery of terrigenous nutrients from rivers and coastal erosion sustain up to one third of Arctic Ocean Net Primary Production	ULB	Belgium
16:35-16:55		Panel Discussion: Q&A, selected topics discussion		
17:00		Closing of the Colloquium		
POSTERS				
65	Martin G.D. George R. Deepulal P.M	Arabian Sea Hypoxic Waters Induced Changes on the Trace Metal Cycling in the Adjacent Cochin Estuary (Southwest Coast of India)	Cochin University of Science and Technology, Kerala	India
107	Elise Toussaint, Robin Sates, Ulrike Braeckman, Jan Vanaverbeke	A controlled experiment to assess the impact of sediment fining on benthic biogeochemistry	Royal Belgian Institute of Natural Sciences	Belgium
130	Galina Stulina	Ecological State of the Aral Sea dried bed	SIC ICWC, International Fund for the Aral Sea saving, Interstate Coordination Water Commission, Scie	Uzbekistan
117	Marco van Hullen, Christoph Heinze, Jörg Schwinger, Jerry Tjiputra	Long-term sediment simulation in an Earth System Model	University of Bergen	Norway
100	Anders Tengberg, Andreas Lindhe, Fredrik Lindgren, Lars Rosen, Ida-Maja Hasselöv	Monitoring and sustainable management of munition dump sites in the Baltic Sea	Chalmers University of Technology	Sweden
53	Valentin Kokarev, Henning Reiss	Differences in macrobenthic community structure among three Norwegian sub-Arctic fjords – baseline for environmental monitoring	Nord University	Norway
43	Fedor Gippius, Stanislav Mylenkov	Statistics and trends of wind waves parameters in the coastal areas of the Black Sea	Lomonosov Moscow State University	Russia
30	Eric Deleersnyder	Discontinuous Galerkin Method for 1D shallow water model	UCL	Belgium
	Gianluca Franceschini, Marina Pulcini, Sasa Raicevich, Luisa Nicoletti, Marina Penna, Benedetta Trabucco, Paola La Valle, Daniela Paganelli, Raffaele Proietti, Laura Sinapi,	Towards the quantitative assessment of trawling impact on the seabed and benthic ecosystem in Italy within the Marine Strategy Framework Directive	ISPRA	Italy
3	Filippo D'Ascola, Rossetta Di Manto	Hydrodynamic connectivity between port and Marine Protected Area in the Tuscan Archipelago (Italy)	CNR-IBE - LaMMA Consortium	Italy
82	Steven Pint, Gert Everaert, Thanos Gkritzalis, Michiel Vandegehuchte	Air-sea carbon flux at the Barents Continental Shelf	Flanders Marine Institute	Belgium
	Ana I. Catarino, Zhiyue Niu, Peter Davies, Maelen Le Gall, Marco Curto, Chulin Jiang,	Assessment of the microplastic formation and toxicity of bio-based composites	Flanders Marine Institute	Belgium
14	Mariana Dotcheva, Gerjan Vancollie, Hom Dhakal, Michiel Vandegehuchte, Gert Everaert			
96	Stephie Seghers, Charles Lefranc, Gert Van Hoes, Jan Wittoeck	The sensitivity of soft-sediment habitat types to dredging activities	Research Institute for Agriculture, Fisheries and Food, Aquatic Environment and Quality	Belgium
62	Carsten Lemmen, Wirtz Kai W	Vertical positioning as a key functional trait of macrobenthic communities	Helmholtz-Zentrum Geesthacht	Germany
101	Anders Tengberg, Peter Goransson, Olle Nordell	Ceresund marine environment in change: are major ecosystem changes reflected in the Benthic Quality Index?	University of Gothenburg	Sweden
69	Elina Miettinen, Laura Tuomi, Kai Myrberg	Evaluating water exchange in a coastal archipelago in the northern Baltic Sea	Finnish Environment Institute, Helsinki, Finland	Finland
	Anne Deininger, Karl Auestnes, Camille Marie Orsart, Oliver Ferdinand, Helene Frigstad,	Understanding coastal darkening - effects of terrestrial organic matter composition on aquatic microbial ecology in boreal and arctic fjords	University of Agder, Center for Coastal Research	Norway
25	Charlotte Wennberg, Jochen Wollschläger, Oliver Zielinski, Johanna Sjöstedt	Estimating annual nitrogen loads to the coastal zone in Atlantic Canada	Fisheries and Oceans Canada	Canada
50	Noreen Kelly, Javier Guisardo-Sabaniell	Influence of riverine input on Norwegian coastal systems	Norwegian Institute for Water Research	Norway
	Helene Frigstad, Øyvind Kaste, Anne Deininger, Karsten Kvalsund, Gutorm Christensen,	The long and turbulent journey of trace metals along the Scheldt Estuary: an investigation into their speciation, dynamics and bioavailability	1 ULB, 2 Université de Lille	Belgium/ France
40	Richard Bellerby, Kai Sørensen, Marit Norri, Andrew King	Effects of shoreline sediment erosion on estuarine water clarity: results from a Chesapeake Bay modeling study	Virginia Institute of Marine Science	United States
42	Camille Gaulier, Willy Bayens, Martine Leemans, Gabriel Billon, Yue Gao	Dissolved organic matter dynamics across North Sea river salinity gradients	University of East Anglia	United Kingdom
108	Jessica Turner, Carl Friedrichs, Pierre St-Laurent, Marjorie Friedrichs	The Ocean's Alkalinity: Connecting geological and metabolic processes and time-scales	Helmholtz-Zentrum Geesthacht	Germany
	Chiara Cooper, Dorothee Bakker, Richard Cooper, Naomi Greenwood, Silke Kroeger,	Bacterial activity and diversity on black carbon particles in coastal Vietnam waters	Mediterranean Institute of Oceanography	France
19	Andrew Mayes, Carol Robinson	Influence of abiotic factors on the distribution of the nematode community in OB bay (Kara Sea)	Kazan Federal University	Russia
104	Helmut Thomas, Mona Norbiström, Nelo Treblin, Bryce van Dam, Johannes Pätzsch, Kay-Christian Emeis	Hydro-ecological regime of lagoons in north-western part of Black Sea and issues of their water management under climate change	Odessa State Environmental University	Ukraine
4	Mar Benavides, Xavier Mari, Marta Sebastian, Marc Garel, Olivier Pringault	Sediment Quality Assessment in an industrialized Greek coastal marine area (West Saronikos Gulf)	Laboratory of Environmental Chemistry, National and Kapodistrian University of Athens	Greece
63	Polina Lepikhina, Daria Portnova, Vadim Mokevsky, Alesey Gollivov	Use of terrestrial organic inputs by benthic food communities through the lens of food web tracers	University of Agder, Center for Coastal Research	Norway
52	Valery Khokhlov, Yuri Turchenko, Natalia Loboda, Oksana Turchenko	Monitoring Socioeconomic Effects of Sea Water Intrusion in India Delta using Optical and Radar Remote Sensing	COMSATS University Islamabad	Pakistan
36	Georgia Filippi, Manos Dassenakis, Vasiliki Paraskevopoulou	Reconstruction of hypoxic conditions of the Black Sea northwestern shelf over the Holocene based on two sedimentary cores	University of Liège	Belgium
75	Juan Pardo, Maave McGovern, Amanda Poste, Helde Trannum	Evaluation of actin as a reference for quantitative gene expression studies in marine phytoplankton under ocean acidification conditions	Universidad de Vigo	Spain
97	Muhammad Imran Shahzad, Ibrahim Zia	Investigating the combined effects of climate change on offshore wind farm fouling fauna: disrupted ecophysiology of Blue mussel (Mytilus edulis)	Royal Belgian Institute of Natural Sciences	Belgium
	Sarah Robinet, Alice Orléa Matossian, Arthur Capet, Lei Chou, Audrey Plante, Marilaure Grégoire, Nathalie Fagel	Human and climate drivers control hypoxia on the North-Western Black Sea Shelf	Helmholtz-Zentrum Geesthacht	Germany
129	Julia Póp-Fábregas, Paulo Alcaraz-Rocha, Emilio Fernández, Josep Rollant, Cristina Sobrino	Experimental assessment of light decrease on the biology of Posidonia oceanica	University of Liège	Belgium
86	Helena Voet, Carl Van Colen, Jan Vanaverbeke	Effects of climate changes on the distribution of reed beds in coastal lagoons: the case of the Po Delta (Adriatic Sea) within the Change We Care Project	ISPRA	Italy
120	Jana Friedrich, Justus E.E. van Beusekom, Sorin Balan, Dan Seceriu	Trends of color and transparency of the North Sea's water, from in-situ and satellite data	NIOZ	The Netherlands
	Jonathan Richir, Adrien Luyckx, Willy Champenois, Lei Chou, Amélie Corato, Jean-Pierre Descy, Sylvie Gobert, Michèle Leduc, Stanley Luts, Erhard Pfündel, Steffen Walz, Alberto Borges			
83	Matteo Zucchetto, Rossella Boscolo Brusà, Alessandra Feola, Andrea Bonometto, Emanuele Poni, Sara Dastoli, Laura Sinapi, Raffaele Proietti, Debora Bellafiore, Maria Letizia Vitellotti, Davide Bonaldi, Luisa Nicoletti			
	Jaime Pitarch, Daniel Thewes, Jochen Wollschläger, Oliver Zielinski, Emil Stanev, Andrea Pisano, Marco Bellacchio, Salvatore Marullo, Federico Falcini, Simone Coella,			
	Michela Sammartino			

67	Nikolai Maximenko, Gregory Ruiz, Linsey Haram, Luca Centurioni, Andrey Shcherbina, Mary Crowley, James Carlton, Cathryn Murray, Jan Hafner	Physical and biological processes controlling floating ecosystem and changes due to introduction of artificial marine debris	IPRC/IOEST, University of Hawaii	United States
47	Qingquan Han	Narrow down uncertainty in models to ensure resolute management schemes	University of Alabama in Huntsville	United States
46	Mahdi Haddad, Hebib Taibi	Sea Level Change in the Mediterranean Sea from Tide Gauge and satellite altimetry Time Series within the framework of Singular Spectrum Analysis	Algerian Space Agency, Centre of Space Techniques	Algeria
85	Coline Poppeschi, Maximilian Unterberger, Guillaume Charria, Peggy Rimmelin-Maury, Eric Goberville, Nicolas Barrier, Emilie Grossteffan, Michel Repecaud, Loïc Quemener, Sébastien Theetten, Sébastien Petton, Jean-François Le Roux, Paul Tréguer	Hydrological extreme event occurrences and impacts linked with climate variations in coastal waters of western Europe	Ifremer, Univ. Brest, CNRS, IRD, LOPS, IUEM	France
57	Ghadi Lajmi, Rim Ben Amor, Samira Melki, Moncef Gueddadi	Assessment of the trophic status of the Boughrara lagoon (Southeast of Tunisia)	Faculty of Sciences of Tunis	Tunisia
27	Sander Delacauw, Deneudt K., Hablutzel P.I. GEANS consortium	DNA-metabarcoding to detect non-indigenous species in harbours around the North Sea	Flanders Marine Institute (VLIZ)	Belgium
128	Sarah Roberts, Patrick Halpin, James Clark	Jointly modeling marine fish species better informs abundance and distribution	Duke University	United States
68	Cristin Mayes	Coastal ocean management: the development and application of ecosystem-based delay-difference models for bluefish, striped bass, and menhaden	Rosenstiel School for Marine and Atmospheric Science	United States
22	Emil De Borger, Evgeny Ivanov, Ulrike Braeckman, Arthur Capet, Marilaure Grégoire, Karline Soetaert	Exploring the biogeochemical footprint of offshore windfarms	Ghent University	Belgium
115	Johan van der Molen, Thodoris Karpouzoglou, Brigittie Vlaswinkel	Using a water-column model to assess the potential effects of large scale floating platforms for solar energy generation on hydrodynamics and primary production in a coastal sea	NIOZ	The Netherlands
49	Evgeny Ivanov, Arthur Capet, Ninon Mavraki, Jan Vanaverbeke, Steven Degraer, Alexander Barth, Eric Delhez, Karline Soetaert, Marilaure Grégoire	Impact assessment of biofouling communities of Belgian offshore wind farms on the sediment bed using a coupled model	MAST, University of Liège	Belgium
17	Alexandra Chava, Vadim Mokievsky, Philipp Sapozhnikov, Vyacheslav Kremenetsky	At the interface of sciences: ADCP as a potential platform for monitoring deep-water fouling of hard substrates	P.P. Shirshov Institute of Oceanology RAS	Russia
81	Jean-Philippe Pezy, Ilan Robin, Aurore Raoux, Anne-Claire Bennis, Jean-Claude Dauvin	Multidisciplinary and multi-scale assessment of marine renewable energy structure in tidal system	University of Caen, Normandie	France
131	RHOMAD H.1, KHALIL K.1, NEVES R.2, SOBRINHO J.2, MIGUEL DIAS J.3, ELKALAY K.1	Hydrodynamic and biogeochemical functioning of the Agadir Bay (Moroccan Atlantic coast): a numerical modeling approach	Cadi Ayyad University	Morocco
16	Jean-Baptiste Champilou, Maria Pia Nardelli, Christine Barras, Frans Jorissen, Aurélie Mouret, Grégoire M. Maillet, Agnès Baltzer, Jean-Marc Rousset, Marine Reynaud, Edouard Metzger	Medium-term effects of the burial of an offshore wind-farm electric cable on Haploids settlements: benthic foraminifera as bioindicators	UMR 6112 - CNRS, (LPG-BIAF)	France
127	CAPEL A., DABROWSKI T., DELBARE D., FERNANDEZ V., RODRIGUEZ-GALVEZ L., RUBIO A., TWIGT D., WANKE S., EL SERAFY G., Galina Kolyuchkina, Ivan Lyubimov, Vitaly Syomin, Nelli Sergeeva, Alexander Basin, Alexander Ostrovskii	FORCOAST: Earth Observation services for Wild Fisheries, Oystergrounds Restoration and Bivalve Mariculture along European Coasts	MAST, University of Liège	Belgium
31	François Duquesne, Valentin Vallays, Emmanuel Hanert	Functional structure of the Black Sea macrozoobenthos as a key indicator for assessing the marine ecosystem health	Shirshov Institute of Oceanology	Russia
10	Edward Buskey, Michelle Hummel, Robert Griffin	A coupled eco-hydrodynamic model of Lake Titicaca for water quality monitoring	Russian Academy of Sciences	Belgium
32	Marina Espinasse, Per Fauchald, Erik Mikkelsen, Erik Olsen, Vera Hausner, Sigrid Engen, Jamie Afflerbach	Potential impact of infrastructure changes related to a proposed high-volume crude oil export facility and related industries on estuarine ecosystem services in the Mission-Aransas Estuary, Texas, USA	University of Texas Marine Science Institute	United States
35	Fellen Festjens, Naomi Breine, Nene Lefabla, Jan Witteck, Gert Van Hoey	Developing The Ocean Health Index for Northern Norway	Institute of Marine Research	Norway
70	Most Israt Jahan Mili, Md Kawser Ahmed, Muhammad Shahinur Rahman	Biological trait modality responses to different anthropogenic pressures in the Belgian part of the North Sea	ILVO	Belgium
		Productivity of Bay of Bengal	Department of Oceanography and Hydrography, BSMR Maritime University	Bangladesh