

Oral Programme

Sunday, 4 September 2016

12:00-15:00	Registration Room: CCB Foyer
	Room: Hanse Saal
15:00-18:00	Plenary Session 1 Chair: Dr. Tim Jennerjahn, Leibniz Center for Tropical Marine Ecology, Bremen, Germany and Editor-in-Chief of Estuarine, Coastal and Shelf Science
15:00-15:05	Welcome: Dr. Tim Jennerjahn, Leibniz Center for Tropical Marine Ecology, Bremen, Germany and Editor-in-Chief of Estuarine, Coastal and Shelf Science
15:05-15:15	Welcome: Prof. Eva Quante-Brandt, Senator for Science, Health and Consumer Protection of Bremen
15:15-15:20	Welcome: Prof. Hildegard Westphal, Director ZMT
15:20-15:25	Welcome: Dr. Kate Spencer, ECSA President
15:25-15:30	Dr. Tim Jennerjahn: Introduction of Theme and Team (SC, Elsevier, students) and First Keynotes
15:30-16:00	[KEY.01] Nitrogen cycling in modern estuaries - Tales of ruin and resilience Prof. Dr. Robinson W. Fulweiler, Boston University Earth & Environment, USA
16:00-16:30	[KEY.02] Marine litter: Sources, distribution, impacts and management Dr. Francois Galgani, IFREMER, France
16:30-17:00	[KEY.03] Applying ecological network analysis to understand changing coastal ecosystems Prof. Dr. Stuart Borrett, University of North Carolina, Wilmington
17:00-17:30	[KEY.04] Using marine governance to impact science policy in supporting marine ecosystem health and sustainable livelihoods Prof. Dr. Selina Stead, Newcastle University, UK
17:30-17:45	Joining ECSA Prof. Victor de Jonge, Editor-in-Chief Ocean & Coastal Management, Institute of Estuarine and Coastal Studies, University of Hull, UK
17:45-18:00	Introduction to awards and voting with App Dr. Tim Jennerjahn, Leibniz Center for Tropical Marine Ecology, Bremen, Germany and Editor-in-Chief of Estuarine, Coastal and Shelf Science
18:30-20:30	Welcome reception with drinks Room: CCB Foyer
18:00-20:30	Poster session I Room: CCB Foyer

Monday, 5 September 2016					
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
08:00-10:10	GS1A - Coastal morphodynamics affected by engineering structures and sea level rise Chair: Christian Winter	GS2A - Aquaculture and pollution of coastal waters Chair: Mirta Teichberg	GS3A - Biodiversity in coastal systems Chair: Sally Little	GS4A - Implications of resource use patterns and management for the environment Chair: Patrick Meire	SS5B - Exploring coastal futures in the Anthropocene Chair: Martin Le Tissier
08:00-08:15	[O1.01] Historical evolution of a Dutch dune coast: The Delfland case, from natural to antropogenic L. van der Valk* ¹ , F. van der Meulen ² , ¹ <i>Deltares, The Netherlands</i> , ² <i>Frank van der Meulen consultancy, The Netherlands</i>	[O2.01] Aquaculture as a trophic subsidy in coastal systems: Does quality matter? C.A. White* ^{1,2} , P.D. Nichols ² , D.J. Ross ³ , S. Dworjanyn ⁴ , R. Bannister ⁵ , T. Dempster ¹ ¹ <i>University of Melbourne, Australia</i> , ² <i>Commonwealth Science & Industry Research Organisation, Australia</i> , ³ <i>University of Tasmania, Australia</i> , ⁴ <i>Southern Cross University, Australia</i> , ⁵ <i>Institute of Marine Research, Norway</i>	[O3.01] Decade trends of Marine Plankton composition in Daya Bay Y.H. Tan*, X. Yang, C.H. Xiang, J.J. Li, <i>Key Laboratory of Tropical Marine Bio-resources and Ecology, South China Sea Institute of Oceanology, Chinese Academy of Sciences, China</i>	[O4.01] The impacts of coastal developments in Namibia A. Kreiner, <i>National Marine Information and Research Centre, Namibia</i>	[O5.01] Earth observation based mapping of coastal aquaculture ponds in Asian hotspots - An object-based analysis of high spatial resolution Sentinel-1A SAR data M. Ottinger* ¹ , K. Clauss ¹ , Q.T. Vo ² , J. Huth ³ , S. Dech ^{1,3} , C. Kuenzer ³ , ¹ <i>University of Wuerzburg, Germany</i> , ² <i>Can Tho University, Viet Nam</i> , ³ <i>German Aerospace Center, DLR, Germany</i>
08:15-08:30	[O1.02] The morphological response of the Mersey Estuary to the placement of cofferdam structures before and after the implementation of scour protection measures A. Wright, <i>AECOM, UK</i>	[O2.02] Eutrophication and organic sediment pollution in coastal areas of east Mediterranean sea related to aquaculture activities: Case studies in Greece A. Pavlidou*, I. Hatzianestis, P. Zachioti, E. Rousselaki, G. Assimakopoulou, T. Zoulias, A. Konstantinopoulou, <i>Hellenic Centre for Marine Research, Greece</i>	[O3.02] Environmental response of <i>Phaeocystis globosa</i> realised niche: Does the diatom community play a role? S. Karasiewicz* ¹ , E. Breton ² , A. Lefebvre ³ , T. Hernandez-Farinas ^{4,5} , S. Lefebvre ¹ ¹ <i>Université Lille 1, France</i> , ² <i>Univeristé du Littoral côte d'Opale, France</i> , ³ <i>fremer LER Boulogne, France</i> , ⁴ <i>Sorbonne Universités, France</i> , ⁵ <i>fremer Brest, France</i>	[O4.02] The impact of wind energy turbine piles on ocean dynamics S. Grashorn*, E.V. Stanev <i>Helmholtz-Zentrum Geesthacht, Germany</i>	[O5.02] West African coastal lagoons: Threats from anthropogenic inputs and climate change F. Couceiro*, S. Mitchell, I. Boateng, <i>University of Portsmouth, UK</i>
08:30-08:45	[O1.03] Numerical and in-situ investigations of feasibility	[O2.03] Distribution of opportunistic Dorvilleid	[O3.03] Dynamic of the phytoplankton population in	[O4.03] The use of regulated tidal exchange/controlled	[O5.03] Accumulation and distribution of organic carbon

	<p>studies of reinstatement work for the Port of Dagebüll O. Lojek*¹, N. Goseberg^{1,2}, T. Schlurmann¹, ¹<i>Leibniz University Hannover, Germany</i>, ²<i>University of Ottawa, Canada</i></p>	<p>polychaetes at salmon farms in Macquarie Harbour, Tasmania, Australia J. Ross*, A. McCarthy, A. Davey, A. Pender, C. MacLeod <i>Institute For Marine and Antarctic Studies, Australia</i></p>	<p>the Seine estuary at spatial and temporal scales J. Morelle*^{1,2}, M. Schapira³, P. Claquin^{1,2}, ¹<i>University of Caen, France</i>, ²<i>UMR BOREA, France</i>, ³<i>IFREMER, France</i></p>	<p>reduced tidal systems to create coastal habitats P. Meire*, T. Maris, L. Oosterlee, T. Cox, A. Boerema, O. Beauchard, S. Temmerman <i>University of Antwerp, Belgium</i></p>	<p>and nitrogen in sediments of the Yellow River estuary and surrounding bays: Influenced by river plume and farmland soils Y.M. Luo*, Y. Li, H.B. Zhang, C. Tu, <i>Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China</i></p>
08:45-09:00	<p>[O1.04] Assessment of the impact of artificial coastal structure on shoreline evolution along a monsoon dominated coast: Kuala Terengganu, Malaysia E.H. Ariffin*^{1,2}, M. Sedrati¹, M.F. Akhir², R. Yaacob², M.L. Husain² ¹<i>Université de Bretagne-Sud, France</i>, ²<i>Universiti Malaysia Terengganu, Malaysia</i></p>	<p>[O2.04] Different shrimp culture intensity practices may influence bacterial abundance on aggregates Y.R. Alfiansah*^{1,2}, A. Kunzmann¹, A. Gärdes¹, ¹<i>Leibniz Center for Tropical Marine Ecology (ZMT), Germany</i>, ²<i>Reserch Center for Oceanography (LIPI), Indonesia</i></p>	<p>[O3.04] Spatial and seasonal characterization of planktonic biodiversity in the French Basque coast: Is there a link with marine pelagic mucilage occurrence? N. Susperrégui¹, Y. Del Amo*¹, N. Bru¹, F. d'Amico¹, V. David¹, F. Jude¹, J. D'Elbée¹, S. Bichon¹, L. Bourasseau¹, C. Lienart¹ et al ¹<i>Institut des Milieux Aquatiques, France</i>, ²<i>Université de Bordeaux, France</i>, ³<i>Université de Pau, France</i>, ⁴<i>LAPHY, France</i></p>	<p>[O4.04] Assessing the coastal risk landscape in the Maresme region (NW Mediterranean) C. Ballesteros*, E. Roca, J.A. Jiménez, M. Villares, <i>Universitat Politècnica de Catalunya-BarcelonaTech, Spain</i></p>	<p>[O5.04] Response of phytobenthic communities towards top-down and bottom-up controls in an eutrophied coastal system A. Fricke*^{1,2}, G.A. Kopprio¹, M. Gastaldi³, M. Narvarte³, D. Alemany⁴, A. Martinez⁵, D. Rendas⁶, E. Parodi^{1,6}, R.J. Lara¹, F. Hidalgo⁴ et al ¹<i>Instituto Argentino de Oceanografía (IADO), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina</i>, ²<i>University of Bremen, Germany</i>, ³<i>Universidad Nacional del Comahue, Argentina</i>, ⁴<i>CONICET - Universidad Nacional de Mar del Plata, Argentina</i>, ⁵<i>Universidad Nacional del Sur. Av. Alem, Argentina</i>, ⁶<i>Universidad Nacional del Sur (UNS), Argentina</i></p>
09:00-09:10	<i>Synchronization Break</i>				
09:10-09:25	<p>[O1.05] Morphologic evolution of the Volta estuary mouth since the construction of the Akosombo dam - A satellite</p>	<p>[O2.05] Distribution of phosphorus in sediments at the areas of different environmental status (Adriatic</p>	<p>[O3.05] Macroalgae associated to the roots of Rhizophora mangle in Rosario islands, Colombian Caribbean</p>	<p>[O4.05] Living behind the coast - dual economy, controversial policies and unequal development in the Riviera</p>	<p>[O5.05] The coastal Arabian Sea as a source of CO₂; A carbon isotopic study of dissolved inorganic carbon</p>

	<p>image analysis of the last decades A. Bolle*, F. Bréhin, G. Van Holland, D. Depreiter, M. Mathys, <i>IMDC nv, Belgium</i></p>	<p>Sea, Croatia) S. Matijevic*, D. Bogner, I. Cvitkovic, A. Žuljevic, M. Despalatovic, G. Kuspilic, B. Grbec, <i>Institute of Oceanography and Fisheries Split, Croatia</i></p>	<p>C. Salazar-Forero¹, B. Gavio*¹, M. Wynne², ¹<i>Universidad Nacional de Colombia, Colombia</i>, ²<i>University of Michigan Herbarium, USA</i></p>	<p>Maya, Mexico L. Schneider, <i>University of Bern, Switzerland</i></p>	<p>P.S. Bhavya*¹, S. Kumar¹, G.V.M. Gupta^{1,2}, V. Sudheesh^{1,2}, K.V. Sudharma^{1,2}, ¹<i>Physical Research Laboratory, India</i>, ²<i>CMLRE, India</i></p>
09:25-09:40	<p>[O1.06] Erosional-accretional regime of the exposed Pacific and protected Gulf of California beaches of the southern Baja California peninsula, Mexico E.H. Nava-Sanchez*, G. Martinez-Flores, J.M. Murillo-Jimenez, <i>National Polytechnic Institute - CICIMAR, Mexico</i></p>	<p>[O2.06] Characterization of chromophoric dissolved organic matter (CDOM) in Izmir Bay (Aegean Sea) by excitation-emission matrix spectroscopy (EEMs) H. Alyuruk*, A. Kontas, <i>Dokuz Eylul University, Institute of Marine Sciences and Technology, Turkey</i></p>	<p>[O3.06] Interacting effects of habitat-forming species on benthic communities of mangroves M. Vozzo*, M. Bishop, <i>Macquarie University, Australia</i></p>	<p>[O4.06] Operationalizing the social-ecological systems framework at the local level: Assessing the sustainability of mangrove aquaculture on Lombok, Indonesia P. Senff*^{1,2}, S. Partelow¹, N. Buhari², A. Kunzmann¹, A. Schlüter¹, ¹<i>Leibniz Center for Tropical Marine Ecology, Germany</i>, ²<i>University of Mataram, Indonesia</i></p>	<p>[O5.06] Managing a future with energy farms at sea - exploring governance responses to support marine energy developments M. Lange*^{1,3}, V. Cummins^{1,2}, A.M. O'Hagan¹, R. Devoy^{1,3}, M. Le Tissier^{1,2}, ¹<i>University College Cork (UCC), Ireland</i>, ²<i>Future Earth Coasts, formerly Land-Ocean Interactions in the Coastal Zone (LOICZ), Ireland</i>, ³<i>Department of Geography, UCC, Ireland</i></p>
09:40-09:55	<p>[O1.07] Monitoring long term beach erosion adjacent to microtidal inlet using satellite images: A case study at Cua Dai beach, Vietnam T.K.A. Do*^{1,2}, S. de Vries¹, M.J.F. Stive¹, ¹<i>Delft University of Technology, The Netherlands</i>, ²<i>University of Science and Technology-The University of Da Nang, Viet Nam</i></p>	<p>[O2.07] Seasonal variations of dissolved nutrients and trophic states in the Edremit Bay, Aegean Sea E. Darilmaz*, H. Alyuruk, A. Kontas, O. Altay, E. Suzer, M. Bilgin, <i>Dokuz Eylul University, Institute of Marine Sciences and Technology, Turkey</i></p>	<p>[O3.07] Effects of environmental change on mangrove biodiversity, community dynamics and ecosystem functions in Java, Indonesia I. Nordhaus*¹, A.K. Seiz^{1,2}, T.E. Romero González^{1,2}, S. Rose^{1,2}, M. Toben^{1,3}, ¹<i>Leibniz Center for Tropical Marine Ecology (ZMT), Germany</i>, ²<i>University of Bremen, Germany</i>, ³<i>Carl von Ossietzky University, Germany</i></p>	<p>[O4.07] A global meta-analysis reveals livestock grazing drives trade-offs between ecosystem services in salt marshes K.E. Davidson*¹, M.S. Fowler¹, M.W. Skov², S. Doerr¹, J.N. Griffin¹, ¹<i>Swansea University, UK</i>, ²<i>Bangor University, UK</i></p>	<p>[O5.07] Preliminary analytical optimization in land use and waste water control: A new perspective of Integrated Coastal Zone Management (ICZM) in carbon emission reduction T. Zou, <i>Yantai Institute of Coastal Zone Research, China</i></p>
09:55-10:10		<p>[O2.08] Responses of two bloom forming microalgae, <i>Ostreopsis</i> and <i>Coscinodiscus</i>, towards a human altered</p>	<p>[O3.08] Changes in mangrove forest structure and their effect on community composition and ecosystem processes</p>		

		<p>temperature and nutrient regime A. Fricke*^{1,3}, A. Pey¹, F. Gianni¹, R. Lemee^{1,2}, L. Mangialajo^{1,2} ¹Université Nice Sophia Antipolis, CNRS, France, ²Sorbonne Universités, Univ Pierre et Marie Curie, France, ³Instituto Argentino de Oceanografía (IADO), Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET), Argentina</p>	<p>V. Helfer*¹, S.C. Pennings², A. Armitage³, M. Zimmer¹, ¹Leibniz-Center for Tropical Marine Ecology, Germany, ²University of Houston, USA, ³Texas A&M University, USA</p>		
10:10-10:40	Coffee/Tea Room: CCB Foyer				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
10:40-12:50	<p>GS1A - Coastal morphodynamics affected by engineering structures and sea level rise Chair: Christian Winter and SB Mitchell</p>	<p>GS2A - Aquaculture and pollution of coastal waters Chair: Lucia Herbeck</p>	<p>GS3A - Biodiversity in coastal systems Chair: Inga Nordhaus</p>	<p>GS4A - Implications of resource use patterns and management for the environment Chair: Sandra Ramos</p>	<p>SS5A - EMECS - Environmental Management of Enclosed Coastal Seas Chair: Eric Wolanski, Jianfang Chen</p>
10:40-10:55	<p>[O1.09] Evolution of a transgressive barrier-dune system along a starved shelf: Implication for beach sediment budget related to current trends in seawater acidification E. Molinaroli¹, G. De Falco², A. Conforti², S. Simeone*² ¹Università Cà Foscari, Venezia, Italy, ²Istituto per L'ambiente Marino Costiero CNR, Italy</p>	<p>[O2.09] Do nutrients affect seagrasses of the heavily populated western-coast of Zanzibar? D. Hoeijmakers*^{1,2}, F. Belshe¹, T. Rixen¹, U. Nehls², M. Teichberg¹, ¹Leibniz Center of Tropical Marine Ecology, Germany, ²University of Bremen, Germany</p>	<p>[O3.09] Multiple classification system for classification of mangroves at species level using multispectral image data K. Arun Prasad*¹, D. Bharath Bhushan², L. Gnanappazham¹, N. Rama Rao¹, R. Ramasubramanian³, V. Selvam³ ¹Indian Institute of Space Science and Technology, India, ²IRISA OBELIX, France, ³M. S. Swaminathan Research Foundation, India</p>	<p>[O4.09] Contested claims at the fluid boundary between the marine and the terrestrial J. Heyde*¹, M.C. Lukas^{2,3}, ¹University of Bremen, Germany; ²MARUM – Center for Marine Environmental Sciences, Germany; ³Sustainability Research Center (artec), University of Bremen, Germany</p>	<p>[O5.08] Quantification of metal transport from contaminated sediments of industrial origin P.C. Frogner-Kockum*¹, M.Y. Kononets², A. Apler³, S. Josefsson³, C.J. Paul⁴, G. Göransson¹, L. Zillén³, K. Wiberg⁵, I. Snowball⁶ et al, ¹Swedish Geotechnical Institute, Sweden, ²University of Gothenburg, Sweden, ³Swedish Geological Survey, Sweden, ⁴Lund University, Sweden, ⁵University of Agricultural Science, Sweden, ⁶University of Uppsala, Sweden</p>

<p>10:55-11:10</p>	<p>[O1.10] Assessing the influence of local features and exposure in beach dynamics A. Bio*¹, J.A. Gonçalves¹, H. Granja¹, J. Pinho², L. Bastos¹ ¹Porto University, Portugal, ²University of Minho, Portugal</p>	<p>[O2.10] Nitrogen content, isotopic composition and allocation in tropical seagrass species exposed to different levels of aquaculture effluents in Hainan, China E. Thomsen*, L.S. Herbeck, T.C. Jennerjahn, <i>Leibniz Center for Tropical Marine Ecology (ZMT), Germany</i></p>	<p>[O3.10] The changing nature and vegetation dynamics of Scotland's saltmarshes T.A. Haynes*¹, C. Scanlan², S. Angus³, N. Bhatti⁴, ¹NatureBureau Ltd, UK, ²Scottish Environmental Protection Agency, UK, ³Scottish Natural Heritage, UK, ⁴Scottish Environmental Protection Agency, UK</p>	<p>[O4.10] Empowering local fishermen communities to actively participate in scientific sampling surveys- a synergy between science and fisheries S. Ramos*^{1,2}, J. Festas³, A.P. Mucha¹, J. Cunha¹, ¹University of Porto, Portugal, ²University of Hull, UK, ³APMSHM- Associação Pró-Maior Segurança dos Homens no Mar, Portugal</p>	<p>[O5.09] Eutrophication caused by atmospheric nitrogen deposition in the semi-enclosed embayment along the Sea of Japan R. Sugimoto*¹, M. Tanaka¹, Y. Miyata², S. Nagao², ¹Fukui Prefectural University, Japan, ²Kanazawa University, Japan</p>
<p>11:10-11:25</p>	<p>[O1.11] Tide circulation patterns under sea-level rise scenarios: The case of Ria Formosa coastal lagoon A.R. Carrasco*¹, H. Plomaritis¹, J. Reynolds^{2,3}, O. Ferreira¹, D. Roelvink^{2,3}, ¹Universidade do Algarve, Portugal, ²UNESCO-IHE, The Netherlands, ³Deltares, The Netherlands, ⁴Delft University of Technology, The Netherlands</p>	<p>[O2.11] The world's largest macroalgal bloom in the Yellow Sea, China: Formation and implications D. Liu*, J.K. Keesing, <i>Yantai Institute of Coastal Zone Research, China</i></p>	<p>[O3.11] Impact of human visitors on the marine rocky intertidal communities C. Stevcic*, M. Perez-Miguel, A. Tovar-Sánchez, J. Cuesta, <i>Institute of Marine Sciences of Andalusia (ICMAN-CSIC), Spain</i></p>	<p>[O4.11] A quantitative review of paradigms in fisheries sustainability science and implications for interdisciplinary research S. Kochalski, <i>Leibniz Institute of Freshwater Ecology and Inland Fisheries, Germany</i></p>	<p>[O5.10] The need to look upstream and to combine analyses of physical environmental changes with qualitative social-scientific inquiry. The case of the shrinking Segara Anakan lagoon in Java, Indonesia M.C. Lukas^{1,2}, ¹MARUM – Center for Marine Environmental Sciences, Germany; ²Sustainability Research Center (artec), University of Bremen, Germany</p>
<p>11:25-11:40</p>	<p>[O1.12] Heavy mineral analysis of the coastal area of the keta municipal district (Ghana) B. Lassalle*^{1,2}, T. Mann¹, E. Casella¹, A. Rovere^{1,4}, T. Mensah-Senoo³, P.N.J. Quashigah³, K.A. Addo³, A. Serwa^{1,2}, H. Westphal^{1,2} ¹Leibniz Center for Tropical Marine Ecology (ZMT), Germany, ²University of Bremen, Germany, ³University of Ghana, Ghana, ⁴Center for</p>	<p>[O2.12] Fluxes of legacy and emerging organic contaminants from 40 rivers around the Bohai Sea, China J.H. Tang*¹, Z.Y. Xie², R.M. Wang¹, X.M. Zhen¹, R. Ebinghaus², ¹Yantai Institute of Coastal Zone Research, Chinese Academy of Sciences, China, ²Helmholtz-Zentrum Geesthacht, Centre for Materials and Coastal Research, Germany</p>	<p>[O3.12] Effects of sediment deposition on soft-sediment benthic biodiversity and ecosystem functioning in a north-western European estuary S. Mestdagh*¹, L. Bagaço¹, U. Braeckman¹, T. Ysebaert², T. Moens¹, C. Van Colen¹, ¹Ghent University, Belgium, ²Netherlands Institute for Sea Research, The Netherlands</p>	<p>[O4.12] Anthropogenic modifications of the coastal environment as seen through the eyes of Cultural Theory: A story of shifting mindsets M. van Zetten^{1,2}, ¹Rijkswaterstaat, The Netherlands, ²World Maritime University, Sweden</p>	<p>[O5.11] Adaptation of rainfall intensity variation due to climate change on coastal area flood modeling and drainage system design T. Geberemariam, <i>DEP / NYU, USA</i></p>

	<i>Marine Environmental Sciences (MARUM), Germany</i>				
11:40-11:50	<i>Synchronization Break</i>				
11:50-12:05	<p>[O1.13] Process based indicators to assess storm induced coastal hazards O. Ferreira*, T. Plomaritis, S. Costas, <i>CIMA/University of Algarve, Portugal</i></p>	<p>[O2.13] Assessment of butyltin and total tin contamination of sediments from the eastern Adriatic coast (Croatia) M. Furdek, N. Bacic, N. Mikac, G. Kniewald*, <i>Division for Marine and Environmental Research, Rudjer Boskovic Institute, Croatia</i></p>	<p>[O3.13] Microbial community interacting with macrobenthic populations in transitional water ecosystems C. Pavloudi*^{1,2}, K. Vasileiadou¹, E. Chatzinikolaou¹, G. Kotoulas¹, M. González-Wangüemert³, C. Arvanitidis¹, ¹<i>Institute of Marine Biology, Biotechnology and Aquaculture, Hellenic Centre for Marine Research, Greece,</i> ²<i>University of Ghent, Belgium,</i> ³<i>Centre for Marine Sciences, Portugal</i></p>	<p>[O4.13] Cross-cultural differences in public perception of aquatic biodiversity and conservation S. Kochalski*¹, C. Riepe¹, M. Fujitani¹, R. Arlinghaus^{1,2} ¹<i>Leibniz Institute of Freshwater Ecology and Inland Fisheries, Germany,</i> ²<i>Humboldt-Universität zu Berlin, Germany</i></p>	<p>[O5.12] Recent shift of environmental management policy in the Seto Inland Sea, Japan from water quality control to maximization of ecosystem services O. Matsuda, <i>International EMECS Center, Japan</i></p>
12:05-12:20	<p>[O1.14] Long-tern statistics of past and possible future storm events in the German Bight I. Grabemann, L. Gaslikova*, N. Groll, R. Weisse, <i>Helmholtz-Zentrum Geesthacht, Germany</i></p>	<p>[O2.14] An analysis of some heavy metals in the water, sediments and two commercially important fish species from Yewa Lagoon, Nigeria I.O. Taiwo*¹, A.F. Gafar², O.A. Olopade³, ¹<i>Federal University of Agriculture, Nigeria,</i> ²<i>Olabisi Onabanjo University, Nigeria,</i> ³<i>University of Port Harcourt, Nigeria</i></p>	<p>[O3.14] Invasive species can increase functional diversity in spite of strong negative effects on taxonomic diversity and evenness J.B. Gusmao*^{1,2}, P.C. Lana², B.K. Eriksson¹, ¹<i>University of Groningen, The Netherlands,</i> ²<i>Federal University of Paraná, Brazil</i></p>	<p>[O4.14] Integrating historical unknowns and uncertainties of the estuarine functioning in the investigation for future planning D. Depreiter¹, G. Van Holland¹, A. Bolle*¹, R. Adams¹, M. De Beukelaer-Dossche², ¹<i>International Marine & Dredging Consultants NV, Belgium,</i> ²<i>Waterwegen & Zeekanaal NV, Belgium</i></p>	<p>[O5.13] Development of coastal management method to realize the sustainable coastal sea T. Yanagi, <i>International EMECS Center, Japan</i></p>
12:20-12:35	<p>[O1.15] Water column and sediment bed interaction during storm events in a non-tidal, mixed sediment environment P.L. Forsberg*, V.B. Ernstsens, T.J. Andersen, A. Kroon, <i>University of Copenhagen, Denmark</i></p>	<p>[O2.15] Modelling the air-sea exchange of mercury in the North- and Baltic Sea J. Bieser*^{1,2}, C. Schrum^{1,3} ¹<i>Helmholtz Zentrum Geesthacht, Germany,</i> ²<i>National Aeronautics and Space Research Center, Germany,</i> ³<i>University of Bergen, Norway</i></p>	<p>[O3.15] Plasticity of inorganic carbon uptake mechanisms in Northeast Atlantic rhodoliths L.C. Hofmann, <i>Max Planck Institute for Marine Microbiology, Germany</i></p>		

12:35-12:50		[O2.16] Historic coastal landfill: An unquantified source of diffuse pollution in the coastal zone K.L. Spencer* ¹ , J.H. Brand ¹ , F.T. O'Shea ² , ¹ Queen Mary University of London, UK, ² University College London, UK			
12:50-14:00	Lunch Room: CCB Foyer				
14:00-15:00	Poster Session I Room: CCB Foyer				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
15:00-16:00	SS1E - Measuring bio-geophysical processes in dynamic and complex environments Chair: Marius Becker, Michael Fettweis, Also Sottolichio, Rolf Riethmüller	SS1F - Ecogeomorphology of estuarine systems Chair: Marco Toffolon, Andrea D'Alpaso, Stijn Temmermann, Marco Marani	GS3B - Role of functional and response diversity to changes for ecosystem resilience Chair: Inga Nordhaus	GS4D - Valuing marine ecosystem services Chair: Achim Schlüter	SS5H - Repairing the world's estuaries: opportunities and constraints in the Anthropocene Chair: Nathan Waltham, Marcus Sheaves
15:00-15:15	[O1.17] Bio-optical variability and surface currents in the coastal waters of the Barents Sea (Porsangerfjorden) during NORDFLUX project experiments in 2014 and 2015 M. Stramska* ^{1,2} , J. Bialogrodzka ² , A. Cieszynska ² , D. Ficek ³ , M. Wereszka ² , ¹ Institute of Oceanology PAS, Poland, ² Szczecin University, Poland, ³ Pomeranian Academy, Poland	[O2.17] Marine sediment supply explains large-scale patterns of saltmarsh change in the UK C.J.T. Ladd*, M.W. Skov, Bangor University, UK	[O3.17] Salinity fluctuation effect on estuarine key nitrogen processes J. Santos*, M. Monteiro, D. Mendes, H. Ribeiro, T. Borges, C. Magalhães, University of Porto, Portugal	[O4.15] A low cost field-survey method for mapping seagrasses and their potential threats: An example from the northern Gulf of Aqaba, Red Sea G. Winters* ¹ , D. Edelist ² , R. Shem-Tov ¹ , S. Beer ³ , G. Rilov ² ¹ The Dead Sea Arava Science Center, Israel, ² National Institute of Oceanography, Israel, ³ Tel Aviv University, Israel	[O5.14] Maximising the efficacy of species transplants for improving the ecological value of seawalls V.R. Cumbo* ¹ , E.M.A. Strain ² , E.L. Johnston ² , M.J. Bishop ¹ ¹ Macquarie University, Australia, ² University of New South Wales, Australia
15:15-15:30	[O1.18] Oxygen dynamics in permeable sediments with stationary and migrating bedforms S. Ahmerkamp ¹ , C. Winter ² , K.	[O2.18] Spatial and temporal variations in sediment availability for coastal saltmarshes M. Schuerch* ¹ , R. Reef ¹ , B.	[O3.18] Phytoplankton succession and assemblage characteristics in recurrently fluctuating environments D.L. Roelke* ¹ , S. Spatharis ¹	[O4.16] Cost-effective management of ecosystem services in an estuary A. Boerema*, S. Van Passel, P. Meire, University of Antwerp,	[O5.15] Tidal flat nourishments: A rare and unexplored eco-engineering practice in estuarine management

	<p>Krämer², D. de Beer¹, F. Janssen^{3,4}, M.M.M. Kuypers¹, M. Holtappels^{*3,1}, ¹Max Planck Institute for Marine Microbiology, Germany, ²Marum Center for Marine Environmental Sciences of Bremen, Germany, ³Alfred Wegener Institute, Germany, ⁴Marum HGF-MPG Group for Deep Sea Ecology and Technology, Germany</p>	<p>Evan¹, J. Tempest¹, M. Martin² ¹University of Cambridge, UK, ²Kiel University, Germany</p>	<p>¹Texas A&M University, USA, ²University of Glasgow, UK</p>	<p>Belgium</p>	<p>T.J.W. Ysebaert^{*1,2}, B. van Prooijen³, B. Walles¹, O.J. Jewell¹, L. de Vet^{3,5}, M. Boersema⁴, J. van der Werf⁵, T.J. Bouma¹, Z.B. Wang^{3,5}, P.M.J. Herman^{5,1}, ¹Royal Netherlands Institute for Sea Research, The Netherlands, ²IMARES - Wageningen UR, The Netherlands, ³Delft University of Technology, The Netherlands, ⁴HZ University of Applied Sciences, The Netherlands, ⁵Deltares, The Netherlands</p>
<p>15:30-15:45</p>	<p>[O1.19] Interaction between fluid mud dynamics and salinity intrusion in a hyper-turbid estuary C. Maushake^{*1}, M. Becker² ¹Federal Waterways Engineering and Research Institute, Germany, ²University of Bremen, Germany</p>	<p>[O2.19] Long-term landscape evolution of the coupled system of vegetated marshes and bare intertidal flats explained by hydrodynamic and ecological field data P.W.J.M. Willemsen^{*1,2}, B.W. Borsje^{1,3}, T.J. Bouma², S.J.M.H. Hulscher¹, ¹University of Twente, The Netherlands, ²NIOZ, The Netherlands, ³Deltares, The Netherlands</p>	<p>[O3.19] Planktonic production and size-structure in Daya Bay: Indication for ecosystem structure, function and their potential anthropogenic impacts X.Y. Song^{*1,2}, L.B. Zhou¹, S.N. Xu³, Z.X. Ke¹, L.M. Huang¹ ¹Key Laboratory of Tropical Marine Bio-resources and Ecology, South China Sea Institute of Oceanology, Chinese Academy of Sciences, China, ²Marine Biology Research Station at Daya Bay, China, ³South China Sea Fisheries Research Institute, Chinese Academy of Fisheries Sciences, China</p>	<p>[O4.17] Incorporate Low Emission Development Strategy (LEDS) into local economics improvement: A case study in coastal communities of Lombok Island, Indonesia Z. Imran^{*1,3}, P. Wibowo³, B. Nababan², M. Arsyad², Y. Rustandi², F. Kurniawan² ¹Bogor Agriculture University, Indonesia, ²Center for Coastal and Marine Studies, Indonesia, ³Blue Carbon Consortium, Indonesia</p>	<p>[O5.16] Mechanisms of the spatial distribution of plastic debris, an integrative model for estuaries P. Vermeiren^{*1}, C. Munoz³, K. Ikejima², ¹Eawag, Switzerland, ²Kochi University, Japan, ³Freelance, Switzerland</p>
<p>15:45-16:00</p>	<p>[O1.20] Saltwater intrusion on surface water and groundwater into Citarum Watershed, West Java, Indonesia S. Nurdjaman*, D.E. Irawan, I. Siregar, A. Atmosudirjo, K.</p>	<p>[O2.20] Modelling the role of vegetation on the equilibrium morphology of salt-marsh channels A. Sgarabotto, A. D'Alpaos, S. Lanzoni*, <i>University of Padova,</i></p>	<p>[O3.20] Changes in structure and function of submerged vegetation in shallow estuaries along the German Baltic Sea J. Meyer, I. Blindow*, <i>University of Greifswald, Germany</i></p>	<p>[O4.18] Intercalibration of coastal waters across the North East Atlantic using chlorophyll-a M.J. Devlin^{*1}, X. Desmit², W. Bonne³, C. Belin⁴, M. Best⁵, A.C.</p>	<p>[O5.17] Coastal wetland tipping point: A case study of wetland destruction, protection and repair in Great Barrier Reef catchment area N. Waltham, <i>James Cook</i></p>

	<p>Prabowo, I.M. Radjawane Bandung Institute of Technology, Indonesia</p>	<p><i>Italy</i></p>	<p>Brito⁶, R. Buchet⁵, A. Grage⁷, A. Gayoso⁸, X. Guinda⁹, T. Johnsen¹⁰, S. O'Boyle¹¹, G. McDermott¹¹, M. Revilla¹², H. Ruiter¹³, R. Wilkes¹¹, ¹CEFAS, UK, ²RBINS DO-Nature, Belgium, ³Joint Programming Initiative for Healthy and Productive Seas and Oceans Troonstraat, Belgium, ⁴IFREMER, France, ⁵Estuarine and Coastal Monitoring and Assessment Service (ECMAS) National Monitoring Services. Environment Agency, UK, ⁶MARE – Marine and Environmental Sciences Centre, Faculty of Sciences of the University of Lisbon, Portugal, ⁷Flussgebietsmanagement Übergangs- und Küstengewässer. NLWKN * Betriebsstelle Brake-Oldenburg, Germany, ⁸Rede de Observación Ambiental de Galicia - LMAG, Spain, ⁹Universidad de Cantabria, Spain, ¹⁰Norwegian Institute for Water Research (NIVA) Regional Office Bergen, Norway, ¹¹Environmental Protection Agency, Ireland, ¹²AZTI-Tecnalia, Marine Research Division, Spain, ¹³Centre for Water Management, The Netherlands</p>	<p><i>University, Australia</i></p>
<p>16:00-16:30</p>	<p>Coffee/ Tea Room: CCB Foyer</p>			

	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
16:30-19:10	<p>SS1E - Measuring biogeophysical processes in dynamic and complex environments Chair: Marius Becker, Michael Fettweis, Also Sottolichio, Rolf Riethmüller</p>	<p>SS1F - Ecogeomorphology of estuarine systems Chair: Marco Toffolon, Andrea D'Alpaso, Stijn Temmermann, Marco Marani</p>	<p>SS3F - Ecological responses of large estuarine-shelf system under natural and anthropogenic stresses with an interdisciplinary perspective Chair: Feng Zhou, Jianfang Chen, Daji Huang</p>	<p>SS4F - Experimental economics evidence for contributions to marine and coastal collective goods Chair: Achim Schlüter, Katherine Nelson</p>	<p>SS5H/ SS5E - Repairing the world's estuaries: opportunities and constraints in the Anthropocene/ Managing harbours as complex social-ecological systems Chair: Nathan Waltham, Marcus Sheaves/ Joanne Banks, Tom Brewer, Elisabeth Strain</p>
16:30-16:45	<p>[O1.21] Field estimates of settling velocities in a tidal creek : Limiting assumptions and applications C. Schwarz¹, T.J.S. Cox^{*1}, T. Van Engeland², S. Temmerman¹, P. Meire¹, ¹University of Antwerp, Belgium, ²Royal Netherlands Institute for Sea Research, The Netherlands</p>	<p>[O2.21] Effects of vegetation on estuarine morphodynamics under sea level rise, using a 3D process-based model P. Le Hir*, B. Thouvenin, F. Ganthuy, <i>IFREMER, France</i></p>	<p>[O3.21] Assessing the effects of emerging contaminants in estuarine and marine systems T.F. Fernandes, <i>Heriot-Watt University, UK</i></p>	<p>[O4.19] Migrants, environmental attitudes and cooperation: Experimental evidence from coastal communities in Ghana C. Goldbach*, A. Schlüter, <i>ZMT Bremen, Germany</i></p>	<p>[O5.18] Attractively artificial: How the built environment influences community development and invasion A. Lee^{*1}, K. Dafforn¹, E. Johnston¹, P. Hutchings² ¹UNSW Australia, Australia, ²Australian Museum, Australia</p>
16:45-17:00	<p>[O1.22] Kite Aerial Photography system for seasonal monitoring of morpho-sedimentary variations on a muddy-sandy macrotidal estuarine beach (Vilaine estuary, France) O. Morio^{*1}, J.P. Boivin², M. Sedrati¹, T. Garlan², E. Goubert¹ ¹Université de Bretagne Sud, France, ²SHOM Sedimentology Department, France</p>	<p>[O2.22] Identifying eco-engineering species and their effects on estuarine morphodynamics S. Selakovic^{*1}, M.G. Kleinhans¹, M. van Oorschot¹, T.J. Bouma² ¹Utrecht University, The Netherlands, ²Royal Netherlands Institute for Sea Research, The Netherlands</p>	<p>[O3.22] Primary production of phytoplankton in the estuaries of different types (Curonian and Vistula Lagoons and the Volga delta) S.V. Aleksandrov^{*1}, J.A. Gorbunova¹, ¹Atlantic Research Institute of Marine Fisheries and Oceanography, Russia, ²Atlantic Branch of P.P. Shirshov Institute of Oceanology RAS, Russia</p>	<p>[O4.20] Public willingness to pay for biodiversity of migratory fishes - A four-country discrete choice experiment M.L. Fujitani^{*1}, J. Meyerhoff², C. Riepe¹, S. Kochalski¹, R. Arlinghaus^{1,3}, ¹Leibniz-Institute of Freshwater Ecology and Inland Fisheries, Germany, ²Technische Universität, Germany, ³Humboldt-Universität zu Berlin, Germany</p>	<p>[O5.19] The impact of emissions from ships in ports on regional and urban scale air quality V. Matthias*, M. Ramacher, M. Karl, A. Aulinger, J. Bieser, M. Quante, <i>Helmholtz-Zentrum Geesthacht, Germany</i></p>
17:00-17:15	<p>[O1.23] Application of satellite synthetic aperture radar (SAR) for remote sensing the distribution and dynamics of</p>	<p>[O2.23] Turning the tide: Experimental estuaries shaped by channel-shoal interactions, river influxes and eco-</p>	<p>[O3.23] Spatial patterns of nutrient enrichment from river discharge in the great barrier reef and consequent effects</p>	<p>[O4.21] An Emergy-GIS approach for marine natural capital assessment G. Ye, <i>Zhejiang University, China</i></p>	<p>[O5.20] 3D hydrodynamic model as a tool for more efficient port management and operations</p>

	<p>geo-morphological structures and habitats of the Wadden Sea W. Adolph*¹, R. Jung², A. Schmidt³, M. Ehlers², H. Farke¹ ¹National Park Administration Lower Saxony Wadden Sea, Germany, ²University of Osnabrueck, Germany, ³University of Hannover, Germany</p>	<p>engineers M.G. Kleinhans*, L. Braat, J.R.F.W. Leuven, <i>Universiteit Utrecht, The Netherlands</i></p>	<p>J.E. Brodie*^{1,2}, M.J. Devlin^{1,2}, R.J. Waterhouse^{1,2}, ¹James Cook University, Australia, ²C2O Consulting, Australia</p>		<p>J. Moreno-Navas*¹, J. Delgado¹, A. Pulido², J. García-Lafuente¹, M.C. Calero Quesada¹, R. García², ¹University of Málaga, Spain, ²Port Authority of Seville, Spain</p>
17:15-17:30	<p>[O1.24] Long-term ferry-based observations of the suspended sediment fluxes through the Marsdiep inlet using acoustic Doppler current profilers J.J. Nauw*^{1,2}, L.M. Merckelbach³ ¹NIOZ Netherlands Institute for Sea Research, The Netherlands, ²Utrecht University, The Netherlands, ³Helmholtz Zentrum Geesthacht, Germany, ⁴none, The Netherlands</p>	<p>[O2.24] Are tidal marshes adaptive or vulnerable to accelerating sea level rise? S. Temmerman*¹, M.L. Kirwan², E.E. Skeeahan², G.R. Guntenspergen³, S. Fagherazzi⁴ ¹University of Antwerp, Belgium, ²Virginia Institute of Marine Science, USA, ³US Geological Survey, USA, ⁴Boston University, USA</p>	<p>[O3.24] Effects of chronic land-based aquaculture discharges on coral reef communities in the oligotrophic Red Sea S. Carvalho*¹, B. Kürten¹, A. Kattan¹, H. Anlauf¹, C. C. Gourlay², A.M. Ai-Aidaros³, S. Kürten¹, U. Struck⁴, N.V.C. Polunin², B.H. Jones¹, M. Berumen¹ et al, ¹King Abdullah University of Science and Technology (KAUST), Saudi Arabia, ²Newcastle University, UK, ³King Abdulaziz University, Saudi Arabia, ⁴Leibniz Institute for Research on Evolution and Biodiversity, Germany</p>	<p>[O4.22] Do marine resource users prefer to volunteer time or donate money towards a public good? Experimental evidence from Indonesia K.M. Nelson, <i>Leibniz ZMT, Germany</i></p>	<p>[O5.21] Development of a GIS tool for environmental information in colombian harbours C.I. Pereira¹, C.M. Botero*², S. Laiglesia³, ¹Playas Corporacion Ltd., Colombia, ²Universidad Sergio Arboleda, Colombia, ³Geospatium Lab, Spain</p>
17:30-17:40	Synchronization Break				
17:40-17:55	<p>[O1.25] On best-practice for long-term observations of total suspended particulate matter R. Riethmüller*¹, M. Fettweis², R. Verney³, ¹Helmholtz-Zentrum Geesthacht, Germany, ²Royal Belgian Institute of Natural Sciences, Belgium, ³Ifremer, France</p>	<p>[O2.25] Influences of a storm-surge barrier on storm surge, hydrodynamics, and transport processes in the Chesapeake Bay J. Shen*, J. Du, C.H. Hershne, D. Bilkovic, M. Sisson, <i>Virginia Institute of Marine Science, USA</i></p>	<p>[O3.25] Monitoring of eutrophication and ocean acidification off the Changjiang Estuary J.F. Chen*, X.B. Ni, K. Wang, D.W. Li, D.Y. Zeng, H.Y. Jin, D.J. Huang, <i>Second Institute of Oceanography, China</i></p>	<p>[O4.23] The power of societal authorities and economic incentives in reducing plastic bag use in Indonesia R. Spranz^{1,2}, B. Vollan³, A. Schlüter*^{1,2}, ¹Leibniz Centre for Tropical Marine Ecology, Germany, ²Jacobs University, Germany, ³Philipp's University</p>	<p>[O5.22] Effect of vessel traffic on sediment concentration in main Estonian harbours observed from satellite imagery L. Sipelgas*, R. Uiboupin, L. Siitam, A. Arikas, <i>Tallinn University of Technology, Estonia</i></p>

				Marburg, Germany	
17:55-18:10	<p>[O1.26] On the measurement of suspended sediment concentration in energetic, very turbid waters A. Sottolichio*¹, I. Jalon Rojas¹, G. Detandt¹, N. Bonneton¹, P. Laguionie², ¹University of Bordeaux, France, ²IRSN, France</p>	<p>[O2.26] A flume experiment quantifying the effect of saltmarsh canopies on flow velocities and momentum losses J.A. Tempest*, I. Möller, T. Spencer, University of Cambridge, UK</p>	<p>[O3.26] Macrobenthic communities of the Changjiang estuary (Yangtze River: China) and adjacent continental shelf relative to summer mild hypoxia Y.B. Liao*, L. Shou, Y.B. Tang Second Institute of Oceanography, China</p>	<p>Workshop: Ecosystem Network Analysis (ENA) Tutorial Chairs: Victor de Jonge, Institute of Estuarine & Coastal Studies, The University of Hull, United Kingdom and Teresa Fernandes, School of Life Sciences, Heriot-Watt University, Edinburgh, United Kingdom</p>	<p>[O5.23] Atlas for the environmental risk assessment of water quality in marinas A.G. Gómez*, B. Ondiviela, J.D. Díaz, J.A. Juanes, Environmental Hydraulics Institute of the Universidad de Cantabria, Spain</p>
18:10-18:25	<p>[O1.27] Using remote sensing to assess the fluxes at the land-sea interface at salt-marshes of Río Piedras E. Ramírez-Juidías, Universidad de Sevilla, Spain</p>	<p>[O2.27] Mutual role of physical and biological processes on salt marshes and organic carbon accumulation: Inferences from the Venice Lagoon (Italy) M. Roner*¹, M. Ghinassi¹, M. Marani^{1,2}, S. Silvestri², E. Franceschinis¹, N. Realdon¹, A. D'Alpaos¹, ¹University of Padova, Italy, ²Duke University, USA</p>	<p>[O3.27] Benthic biodiversity and ecosystem functioning in an area subjected to natural and anthropogenic stresses: The Po River prodelta T. Cibic*¹, F. Alvisi², R. Auriemma¹, L. Baldassarre³, M. Bazzarro¹, L. Bongiorni², D. Cassin², C. De Vittor¹, S. Fazi³, A. Franzo¹ et al, ¹OGS (Istituto Nazionale di Oceanografia e di Geofisica Sperimentale), Italy, ²CNR-ISMAR (Consiglio Nazionale delle Ricerche - Istituto di Scienze Marine), Italy, ³CNR-IRSA (Consiglio Nazionale delle Ricerche - Istituto di Ricerca sulle Acque), Italy</p>		<p>[O5.24] Effects of marine urban sprawl on ecological connectivity: Impacts and solutions M.J. Bishop, Macquarie University, Australia</p>
18:25-18:40	<p>[O1.28] SPM concentration measurements in low and high turbulent conditions M. Fettweis*, M. Baeye, Royal Belgian Institute of Natural Sciences, Belgium</p>	<p>[O2.28] Changes of the Yellow River Estuary: From natural swing to artificial diversion and development X. Xu, Peking University, China</p>	<p>[O3.28] Impact of mining on Benthic Meiofaunal community at intertidal environments in the SW coast of Tamil Nadu, India P.S. Godson*¹, N.S. Magesh², S. Krishnakumar³, T.S. Peter⁴, N. Chandrasekar⁴, ¹University of Keraka, India, ²Anna University, India, ³University of Madras,</p>		

			<i>India, ⁴Manonmaniam Sundaranar University, India</i>		
18:40-18:55	[O1.29] Factors controlling sediment and nutrient fluxes in a small saltmarsh within the Venice Lagoon A. Bonometto*, A. Feola, F. Rampazzo, C. Antonini, S. Noventa, C. Gion, D. Berto, R. Boscolo, <i>Italian National Institute for Environmental Protection and Research, Italy</i>		[O3.29A] Real-time monitoring of ammonium in estuarine and coastal surface waters: Method development and application Y. Zhu* ^{1,2} , D.X. Yuan ² , J.F. Chen ¹ , ¹ <i>Second Institute of Oceanography, China, ²Xiamen University, China</i>		
18:55-19:10	[O1.30] Eutrophication states and nutrient-phytoplankton dynamics of a polluted tropical embayment of Jakarta Bay, Indonesia : Temporal dynamics from 2011 to 2013 A. Damar* ¹ , K. Juergen-Hesse ² , S. van der Wulp ² , N. Ladwig ² , F. Colijn ² , Y. Vitner ¹ , ¹ <i>Bogor Agricultural University, Indonesia, ²Forschungs-und Technology Zentrum - CAU Kiel University, Germany</i>		[O3.29B] The influence of freshwater inflow on spatial resilience of two estuarine species populations in response to natural (drought and harmful algal bloom) and anthropogenic perturbations (a localized industrial spill) S.D. Whaley* ¹ , M.C. Christman ² , J.J. Burd ¹ ; ¹ <i>Florida Fish and Wildlife Research Institute, USA, ²University of Florida and MCC Statistical Consulting, USA</i>		

Tuesday, 6 September 2016

	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
08:00-10:10	GS1C - Impact of extreme events on coastal systems Chair: SB Mitchell	GS2C - Carbon and nutrient cycling in benthic and pelagic ecosystems Chair: Kate Spencer	GS3B - Role of functional and response diversity to changes for ecosystem resilience Chair: Stuart Borrett	GS4B - Participatory management approaches in coastal zone management Chair: Mike Elliott	SS5C - From 'anthropogenically-modified' to a 'natural' state in the North and Baltic Seas? – Scientific challenges for the implementation of the European Marine Strategy Framework Directive Chair: Ulrich Bathmann, Nicole Schmidt, Kay-Christian Emeis
08:00-08:15	[O1.31] Mixing in the coastal	[O2.29] Abundance and activity	[O3.30] Protistan species	[O4.24] A review and	[O5.25] Is wastewater

	<p>upwelling east of Hainan Island in South China Sea and its response to tropical cyclones M. Li*, X. Yi, S. Zhang, L. Xie, C. He, <i>Guangdong Ocean University, China</i></p>	<p>of methanogenic archaea in two contrasting tropical coastal lakes, Kerala, India S.G.T. Vincent*¹, A.V. Nath¹, S.R. Abhijith¹, R.R. Reshmi¹, J.H. Salahudeen¹, K. Deepa Nair², A. Varma², ¹<i>University of Kerala, India</i>, ²<i>National Centre for Earth Science Studies, India</i></p>	<p>maximum concept: Recent development and implications for the assessment of coastal ecosystem resilience and vulnerability to invasions I.V. Telesh, <i>Zoological Institute of the Russian Academy of Sciences, Russia</i></p>	<p>classification of maritime disasters occurring in the surroundings of Saudi Arabia's coastline A. Almutairi*, M. Mourshed, <i>Cardiff University, UK</i></p>	<p>treatment an effective way to prevent greenhouse gas emission? X. Ma*, A. Kock, H.W. Bange, <i>GEOMAR Helmholtz Center for Ocean Research Kiel, Germany</i></p>
08:15-08:30	<p>[O1.32] Impact of extreme rain events on composition of dissolved organic matter discharged to the coastal ocean: A molecular level study H.Y. Bao*¹, J. Niggemann², T. Dittmar², S-J. Kao¹, ¹<i>Xiamen University, China</i>, ²<i>Oldenburg University, Germany</i></p>	<p>[O2.30] Planar optode studies of marsh rhizospheres K. Koop-Jakobsen*¹, P. Mueller¹, ¹<i>Bremen University, Germany</i>, ²<i>Hamburg University, Germany</i></p>	<p>[O3.31] ETS and oxygen consumption of <i>Cassiopea</i> sp. in response to acute and chronic temperature change S. Aljbour*^{1,2}, M. Zimmer¹, A. Kunzmann¹, ¹<i>Leibniz-Zentrum für Marine Tropenökologie (ZMT) GmbH, Germany</i>, ²<i>Universität Bremen, Germany</i></p>	<p>[O4.25] Factors determining the adoption of China's marine disaster insurance by fishermen in coastal areas of Shandong H. Zheng*, J. Zeng, <i>Ocean University of China, China</i></p>	<p>[O5.26] Regional differences in Wadden Sea eutrophication indicators - The impact of residence times in shallow water areas F. Schwichtenberg*, U. Callies, J.E.E. van Beusekom, <i>Helmholtz Zentrum Geesthacht, Germany</i></p>
08:30-08:45	<p>[O1.33] Coastal geomorphologic evolution and human impacts - the North Jiangsu Plain coast, China as an example Y.Z. Zhang, <i>Nanjing University, China</i></p>	<p>[O2.31] Particulate organic matter composition and dynamics in coastal systems: A spatio-temporal study at multisystem scale C. Liénart*¹, N. Savoye¹, V. David¹, P. Ramond¹, P. Raimbault² et al, ¹<i>UMR EPOC, Université de Bordeaux, CNRS, France</i>, ²<i>UMR MIO, Université Aix-Marseille, CNRS, France</i></p>	<p>[O3.32] Biotic disruption of mutualism decreases saltmarsh resilience M. Derksen-Hooijberg*¹, T. van der Heide¹, L.P.M. Lamers¹, A. Borst¹, A. Smolders³, J.R.H. Hoogveld¹, H. de Paoli⁴, B. Silliman⁵, C. Angelini², ¹<i>Radboud University Nijmegen, The Netherlands</i>, ²<i>University of Florida, USA</i>, ³<i>B-WARE Research Centre, The Netherlands</i>, ⁴<i>Royal Institute for Sea Research, The Netherlands</i>, ⁵<i>Duke University, USA</i></p>	<p>[O4.26] Stakeholder participations and their perceptions towards the environmental impact of seawater desalination project T.K. Liu*¹, T.S. Weng¹, S.L. Hsu², ¹<i>National Cheng Kung University, Taiwan</i>, ²<i>Marine National Park Headquarters, Taiwan</i></p>	<p>[O5.27] Monitoring seafloor integrity and GES using Hydro-acoustic methods G. Montereale-Gavazzi*^{1,2}, X. Lurton⁴, V. Van Lancker¹, M. Roche³, ¹<i>Royal Belgian Institute of Natural Sciences, Belgium</i>, ²<i>Renard Centre of Marine Geology Gent University, Belgium</i>, ³<i>FPS Economy, Continental Shelf Service, Belgium</i>, ⁴<i>Institut Français de Recherche pour l'Exploitation de la Mer (Ifremer), France</i></p>
08:45-09:00	<p>[O1.34] Strategic proposals for the climate change adaptation and governance of coastal management in Southern</p>	<p>[O2.32] Factors controlling dissolved Nitrogen dynamics in the Indian coastal estuarine environment</p>	<p>[O3.33] Plasticity of herbivorous coral reef fish function in response to fisheries and water quality in</p>	<p>[O4.27] Barriers to and opportunities for relocation along the Mid-Atlantic coast from stakeholders perspective</p>	<p>[O5.28] Modelling filtration dynamics of suspension feeders on anthropogenic structures in the southern</p>

	<p>Portugal, Algarve Region A. Samora-Arvela*¹, M. Magarotto^{1,2}, M.J. Roxo¹, J. Ferreira¹, ¹Universidade Nova de Lisboa, Portugal, ²Universidade Federal de Pernambuco, Brazil</p>	<p>A. Ramanathan*¹, G. Singh², N. Priya¹, K. Rao¹ et al, ¹Jawaharlal Nehru University, India, ²CSCZM, Anna University, India</p>	<p>Fiji R.S. McAndrews*^{1,2}, S. Bejarano¹, A.K. Ford^{1,2}, A. Eich^{1,2}, S.C.A. Ferse¹, ¹Leibniz Center for Tropical Marine Ecology, Germany, ²University of Bremen, Germany</p>	<p>A. Bukvic, Virginia Tech, USA</p>	<p>North Sea - their impact on the ecosystem W. Zhang*, K. Slavik, C. Lemmen, K. Wirtz, Helmholtz Center for Materials and Coastal Research Geesthacht, Germany</p>
<p>09:00-09:10</p>	<p>Synchronization Break</p>				
<p>09:10-09:25</p>	<p>[O1.35] Climate change hazards to marine life C.F. de la Hoz*, E. Ramos, A. Puente, J.A. Juanes, I.J. Losada Instituto de Hidráulica Ambiental de la Universidad de Cantabria (Universidad de Cantabria-Fundación IH), Spain</p>	<p>[O2.33] Tracing marine nitrogen back to its continental source V. Dulière*¹, N. Gypens², P. Luyten¹, G. Lacroix¹, ¹Royal Belgian Institute of Natural Sciences, Belgium, ²Université Libre de Bruxelles, Belgium</p>	<p>[O3.34] Higher vulnerability and lower resilience of fish in estuaries worldwide matches higher exposure to human threats S. Henriques, M. Batista, H.N. Cabral, R.P. Vasconcelos* MARE - Marine and Environmental Sciences Centre & FCUL - Faculdade de Ciências da Universidade de Lisboa, Portugal</p>	<p>[O4.28] Marine aquaculture and public values: Relating environmental assessment and industry performance indicators to community-based shared values to improve public understanding and acceptance of coastal governance E. Ogier, C. Macleod*, University of Tasmania, Australia</p>	<p>[O5.29] Sea floor properties and integrity in the southern North Sea K. Emeis*^{1,5}, B. Brockmeyer², I. Kröncke³, G. Kraus⁴, C. Möllmann⁵, C. Winter⁶, G. Witt⁷ ¹Helmholtz Center Geesthacht, Germany, ²Federal Maritime Agency, Germany, ³Senckenberg am Meer, Germany, ⁴Thuenen Institute, Germany, ⁵CEN University of Hamburg, Germany, ⁶MARUM, Germany, ⁷Hamburg University of Applied Sciences, Germany</p>
<p>09:25-09:40</p>		<p>[O2.34] Coastal nutrient cycling in the Vistula outflow area, Bay of Gdansk F. Thoms*¹, I. Bartl¹, M. Gogina¹, K. Schulz¹, M. Voss¹ ¹University Rostock, Germany, ²University of Helsinki, Finland</p>	<p>[O3.35] Effects of biological traits on connectivity patterns of two marine invertebrates in central Chile M. Blanco*, A. Ospina-Álvarez, M. Fernández, Núcleo Milenio - Centro de Conservación Marina CCM, Chile</p>	<p>[O4.29] European coastal lagoons management perspectives using a mosaic-DPSIR approach M. Dolbeth*¹, P. Stålnacke², F.L. Alves¹, L. Sousa¹, G.D. Gooch³, V. Valeriy Khokhlov⁴, Y. Tuchkovenko⁴, J. Lloret^{5,6}, M. Bielecka⁷, G. Róski⁷ et al, ¹University of Aveiro, Portugal, ²Norwegian Institute of Bioeconomy Research, Norway, ³DelPar Environment Consulting,</p>	<p>[O5.30] The service of sediments in German coastal seas - a spatial, functional and monetary approach by the SECOS project F. Kunz¹, U. Bathmann*¹, ¹Rostock University, Germany, ²Leibniz Institute for Baltic Sea Research Warnemuende, Germany</p>

				Sweden, ⁴ Odessa State Environmental University, Ukraine, ⁵ University of Murcia, Spain, ⁶ Marine Biological Laboratory, USA, ⁷ Institute of Hydro-Engineering Polish Academy of Sciences, Poland	
09:40-09:55		<p>[O2.35] Shallowness determines coastal nitrogen filtering R. Hofmeister*, G. Flöser, C. Lemmen, <i>Helmholtz-Zentrum Geesthacht, Germany</i></p>	<p>[O3.36A] On the relevance of including higher trophic levels for modeling long term changes in ecosystem dynamic U. Daewel*^{1,2}, C. Schrum^{1,3}, I. Kröncke⁴, J. Macdonald⁵, ¹Helmholtz Centre Geesthacht, Germany, ²Nansen Environmental and Remote Sensing Center, Norway, ³University of Bergen, Norway, ⁴Senckenberg am Meer, Germany, ⁵University of Iceland, Iceland</p>	<p>[O4.30] Hierarchical toolbox: Ensuring scientific accuracy of citizen science for tropical coastal ecosystems P. Vermeiren*¹, C. Munoz², M. Zimmer³, M. Sheaves⁴ ¹Eawag, Switzerland, ²Freelance, Switzerland, ³Leibniz Center for Tropical Marine Ecology, Germany, ⁴James Cook University, Australia</p>	<p>[O5.31] MeRamo - An assimilative biogeochemical model system for the support of public authorities dealing with the Marine Strategy Framework Directive I. Lorkowski*¹, F. Janssen¹, H. Radtke², L. Nerger³, V. Matthias⁴, ¹Federal Maritime and Hydrographic Agency (BSH), Germany, ²Leibniz Institute for Baltic Sea Research Warnemuende (IOW), Germany, ³Alfred-Wegener-Institut, Helmholtz-Center for Polar and Marine Research (AWI), Germany, ⁴Helmholtz-Center Geesthacht (HZG), Germany</p>
09:55-10:10		<p>[O2.36] Deposition and benthic mineralization of organic carbon: A seasonal study in a sill fjord in the Faroe Islands G. á Norði*¹, R.N. Glud², K. Simonsen¹, E. Gaard³, ¹Fiskaaling-Aquaculture Research Station of the Faroes, Faroe Islands, ²University of Southern Denmark, Denmark, ³Faroe Marine Research Institute, Faroe Islands</p>	<p>[O3.36B] The importance of early life- stage fish predation in structuring estuarine plankton communities: Evidence from mesocosm experiments P.W. Froneman*, T. Dalu, R.J. Wasserman, <i>Rhodes University, South Africa</i></p>		
10:10-10:40	<p>Coffee/Tea Room: CCB Foyer</p>				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig

10:40-12:50	GS1B - From measuring to modelling hydro- and sediment dynamics Chair: Maarten Kleinhans	GS2C - Carbon and nutrient cycling in benthic and pelagic ecosystems Chair: Tim Jennerjahn	GS3C - Linkages between estuarine, coastal and marine habitats Chair: Lucy Gillis	GS4E - Governing the commons: Institutions for the sea/ marine governance Chair: Selina Stead	SS5D - Coastal filters under remake Chair: Jacob Carstensen, Colin A. Stedmon, Andris Andruseitis, Josianne G. Stoettrup
10:40-10:55	[O1.37] Reducing scatter in turbidity data in macrotidal estuaries: What factors are important? S.B. Mitchell* ¹ , R.J. Uncles ¹ ¹ University of Portsmouth, UK, ² Plymouth Marine Laboratory, UK	[O2.37] Cyanobacterial dominance of bacterial communities in a tropical oligotrophic coastal ecosystem: Implications for organic matter cycling H. Schwieder* ¹ , T. Jennerjahn ¹ , J. Jompa ² , A. Gärdes ¹ , ¹ Leibniz Center for Tropical Marine Ecology, Germany, ² Universitas Hasanuddin, Indonesia	[O3.37] Nitrification activity and ammonia-oxidizing archaea and bacteria the hyper-turbid Ems estuary, Germany T. Sanders* ¹ , K. Dähnke ¹ , H. Laanbroek ¹ , ¹ Helmholtz Zentrum Geesthacht, Germany, ² Netherlands Institute of Ecology (NIOO-KNAW), The Netherlands	[O4.32] Interlinking ecosystem services and Ostrom's framework K.J. Winkler* ¹ , S. Partelow ² ¹ University of Oldenburg, Germany, ² Leibniz Center for Tropical Marine Ecology, Germany, ³ Jacobs University, Germany	[O5.32] Nitrogen retention and removal in the extended Elbe Estuary K. Dähnke* ¹ , T. Sanders ¹ , K. Emeis ^{1,2} , ¹ Helmholtz-Zentrum Geesthacht, Germany, ² University of Hamburg, Germany
10:55-11:10	[O1.38] Observations of hydrodynamics and suspended sediment dynamics in the Kimstergat near Harlingen J.J. Nauw* ^{1,2} , T. Gerkema ¹ ¹ Royal Netherlands Institute for Sea Research, The Netherlands, ² Utrecht University, The Netherlands	[O2.38] The impact of disturbed peatlands on river outgassing in Southeast Asia F. Wit* ¹ , D. Müller ² , A. Baum ¹ , T. Warneke ² , W.S. Pranowo ³ , M. Müller ⁴ , T. Rixen ^{1,5} , ¹ Leibniz Center for Marine Tropical Ecology, Germany, ² University of Bremen, Germany, ³ Research & Development Center for Marine & Coastal Resources, Indonesia, ⁴ Swinburne University of Technology, Malaysia, ⁵ University of Hamburg, Germany	[O3.38] Longitudinal distribution of chlorophyll in German estuaries – production versus input A. Schöl* ¹ , A. Becker, C. Viergutz, C. Günster, W. Krings, B. Hein, Federal Institute of Hydrology, Germany	[O4.38] Commons management of estuarine ecosystem services: The case study for Japanese eels (<i>Anguilla japonica</i>) M. Harada* ¹ , M. Onoue ¹ , T. Kanzaki ¹ , S. Hashiguchi ¹ , R. Tsurukawa ² , N. Mochioka ² , Y. Tamura ³ , N. Shimizu ¹ , A. Kasai ⁴ , Y. Yamashita ¹ , ¹ Kyoto University, Japan, ² Kyusyu University, Japan, ³ Oita Prefecture, Japan, ⁴ Hokkaido University, Japan	[O5.33] Nitrogen loads and paths in a eutrophic estuary M. Zilius* ¹ , G. Giordani ² , I. Lubiene ¹ , J. Petkuvienė ¹ , D. Vaiciute ¹ , P. Zemlys ¹ , I. Liskow ³ , M. Voss ³ , M. Bartoli ^{2,1} ¹ Klaipeda University, Lithuania, ² University of Parma, Italy, ³ Leibniz Institute for Baltic Sea Research, Germany
11:10-11:25	[O1.39] The hydrodynamic and sedimentation processes in a new, anthropogenically constructed, intertidal environment J. Dale* ¹ , H. Burgess ¹ , A.	[O2.39] Key processes of estuarine oxygen dynamics - a model study for the Elbe I. Holzwarth* ¹ , K. Wirtz ² ¹ Federal Waterways Engineering and Research	[O3.39] Influence of sea-water intrusion, salinity and temperature on the ecology of mysid <i>Neomysis awatschensis</i> in Yura river-estuary, Central Japan	[O4.39] Efforts and strategies Indonesia on combatting Illegal, Unregulated dan Unreported (IUU) fishing A. Sataria, A. Wibowo*, A.A. Prameswari, A.M. Qkhadafi	[O5.34] Nitrate removal and oxygen dynamics in contrasting estuaries of the Baltic Sea D. Hellemann*, P. Tallberg, S. Hietanen, University of Helsinki, Finland

	Cundy ¹ , C. Firth ² , ¹ University of Brighton, UK, ² Canterbury Christ Church University, UK	Institute, Germany, ² Institute for Coastal Research, Germany	J.O. Omweri*, K.W. Suzuki, H. Yokoyama, Y. Yamashita, Kyoto University, Japan	Human Ecological Faculty - Bogor Agricultural University (Institut Pertanian Bogor), Indonesia	
11:25-11:40	[O1.40] A comparison of trapping processes for suspended matter in European estuaries Y.M. Dijkstra* ¹ , R.L. Brouwer ^{1,2} , H.M. Schuttelaars ¹ , G.P. Schramkowski ^{1,2} , ¹ TU Delft, The Netherlands, ² Flanders Hydraulics Research, Belgium	[O2.40] High spatial resolution perspectives on an intertidal mudflat food web C.J. Reddin* ¹ , L. Barillé ¹ , P. Decottignies ¹ , S.F. Dubois ² , V. Méléder ¹ , V. Turpin ¹ , A. Brind'Amour ³ , B. Cognie ¹ ¹ Université de Nantes, France, ² IFREMER, DYNECO Benthic Ecology Laboratory, France, ³ IFREMER, Fisheries Ecology and Modelling Department, France	[O3.40] Environmental and anthropogenic drivers affect the abundance of anchovy and mysids in the Guadalquivir Estuary (SW Spain) G.F. Carvalho-Souza* ^{1,2} , M. Llope ^{1,3} , F. Baldó ¹ , C. Vilas ⁴ , P. Drake ⁵ , E. González-Ortegón ¹ ¹ Instituto Español de Oceanografía (IEO), Centro Oceanográfico de Cádiz, Spain, ² CAPES Foundation, Ministry of Education of Brazil, Brazil, ³ University of Oslo, Norway, ⁴ IFAPA El Toruño, Spain, ⁵ Instituto de Ciencias Marinas de Andalucía (CSIC), Spain		[O5.35] Nutrient retention in coastal environments of the Baltic Sea J. Carstensen* ¹ , E. Asmala ¹ , D.J. Conley ² , J. Stadmark ² , C. Slomp ³ , M. Voss ⁴ , ¹ Aarhus University, Denmark, ² Lund University, Sweden, ³ Utrecht University, The Netherlands, ⁴ Leibniz Institute of Oceanography, Germany
11:40-11:50	Synchronization Break				
11:50-12:05	[O1.41] Experimental and modelling assessment of sediment flux on Posidonia oceanica meadows along the coastal area of Northern Tyrrhenian sea, Italy F. Paladini de Mendoza*, S. Bonamano, S. Scanu, D. Piazzolla, E. Mancini, S. Cognetti de Martis, M. Marcelli, University of Tuscia, Italy	[O2.41] Seasonal changes in isotopic niche and resource utilization of aquatic consumers in a Mexican floodplain system A. Sepúlveda-Lozada* ¹ , U. Saint-Paul ¹ , M. Mendoza-Carranza ² , M. Wolff ¹ , A. Yáñez-Arancibia ³ ¹ Leibniz Center for Tropical Marine Ecology (ZMT), Germany, ² El Colegio de la Frontera Sur, ECOSUR, Mexico, ³ Instituto de Ecología A. C. (CONACYT), Mexico	[O3.41] Severing salt marsh connectivity alters macrofaunal communities and movement in US South Atlantic tidal creeks P.J. Rudershausen*, J.H. Merrell, J.A. Buckel, North Carolina State University, USA		[O5.36] Modeling nutrient retention in the coastal zone of an eutrophic sea- A model study along the Swedish coast E. Almroth-Rosell* ¹ , M. Edman ¹ , K. Eilola ¹ , H.E.M. Meier ^{1,2} , J. Sahlberg ¹ , ¹ Swedish Meteorological and Hydrological Institute, Sweden, ² Leibniz Institute for Baltic Sea Research Warnemünde, Germany
12:05-12:20	[O1.42] Inferring sediment	[O2.42] Biogeochemical drivers	[O3.43] First glimpse of the		[O5.37] Importance of eelgrass

	<p>transport using large benthic foraminiferal characteristics: Composition, taphonomy and geochemical proxies J. Gacutan*¹, T. Fellowes¹, D. Harris^{3,1}, B. Opdyke², J. Webster¹, A. Vila-Concejo¹, ¹University of Sydney, Australia, ²Australian National University, Australia, ³Bremen University, Germany</p>	<p>of the dynamic of Vibrio species in two estuaries of the Argentinian Patagonia G.A. Kopprio*^{1,2}, M.E. Streitenberger³, K. Okuno⁴, M. Baldini³, S. Yamasaki⁴, F. Biancalana¹, A. Martínez³, M. Graeve⁵, B. Koch⁵, R.J. Lara¹ ¹Instituto Argentino de Oceanografía, Argentina, ²Leibniz Center for Tropical Marine Ecology, Germany, ³Universidad Nacional del Sur, Argentina, ⁴Osaka Prefecture University, Japan, ⁵Alfred Wegener Institute Helmholtz Center for Polar and Marine Research, Germany</p>	<p>Japanese temperate seabass secret from Wakasa Bay, Japan E. Lavergne*, W. Jiang, Y. Yamashita, <i>Kyoto University, Japan</i></p>		<p>for local oxygen dynamics and water clarity P.A. Staehr*¹, E. Asmala¹, D. Krause-Jensen¹, H. Reader², J. Carstensen¹, ¹Aarhus University, Denmark, ²Denmarks Technical University, Denmark</p>
12:20-12:35	<p>[O1.43] Does macrofauna affect suspended sediment distribution in large scale? M.H. Nasermoaddeli*¹, C. Lemmen², R. Hofmeister², K. Klingbeil³, O. Kerimoglu², F. Koesters¹, H. Burchard³, K.W. Wirtz², ¹Federal Waterways Engineering and Research Institute, Germany, ²Helmholtz Zentrum Geesthacht, Germany, ³Leibniz Institute for Baltic Sea Research Warnemuende, Germany</p>	<p>[O2.43] The influence of diatoms on cadmium mobility in the estuarine environment A.E. Becker*, D. Coppystone, A.N. Tyler, <i>University of Stirling, UK</i></p>	<p>[O3.44] Influence of detached macrophytes on fish size and condition in nearshore habitats M.P. Gomes*¹, C.Q. Albuquerque², L. Robinson¹, M. Spencer¹, ¹University of Liverpool, UK, ²Universidade Federal do Rio Grande do Norte, Brazil</p>		<p>[O5.38] Effects of invasions by two annelid species on benthic phosphate fluxes in the eastern Gulf of Finland (Baltic Sea) A.A. Maximov*¹, N.A. Berezina¹, O.M. Vladimirova², T.R. Eremina², A.V. Isaev², ¹Zoological Institute Russian Academy of Sciences, Russia, ²Russian State Hydrometeorological University, Russia</p>
12:35-12:50	<p>[O1.44] An experimental intercomparison of cross-shore sandbar evolution and migration under irregular erosive waves G. Shiravani*^{1,2}, S. Schimmels¹, ¹Forschungszentrum Kueste</p>	<p>[O2.44] Riverine inputs to Norwegian fjords: Effects on lower food web structure and contaminant bioaccumulation A.E. Poste*¹, S. Koppelle^{1,2}, L. Seuthe³, G. Christensen⁴, A. Ruus¹, O. Kaste¹, ¹Norwegian</p>			<p>[O5.39] A systems approach framework for coasts: Eco-technologies in the Szczecin (Oder-) Lagoon R. Friedland*¹, S. Dahlke², L. Meyers¹, G. Schernewski^{1,3}, J. Schumacher¹, N. Stybel^{1,4},</p>

	<i>(FZK), Germany, ²Leibniz University Hannover, Germany</i>	<i>Institute for Water Research, Norway, ²University of Amsterdam, The Netherlands, ³University of Tromsø, Norway, ⁴Akvaplan-niva, Norway</i>			<i>¹Leibniz Institute for Baltic Sea Research Warnemünde, Germany, ²University of Greifswald, Germany, ³Klaipeda University, Lithuania, ⁴The Coastal & Marine Union Germany, Germany</i>
12:50-14:00	Lunch Room: CCB Foyer				
14:00-15:00	Poster session II Room: CCB Foyer				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
15:00-16:00	SS1G - Estuarine numerical model development and applications Chair: Hans Burchard, Elisabeth Schulz, Christian Winter	GS2B - From catchment to coast: effects of land use change and hydrological regulations Chair: Carlos Rezende	GS3C - Linkages between estuarine, coastal and marine habitats Chair: Lucy Gillis	SS1E - Measuring biogeophysical processes in dynamic and complex environments Chair: Marius Becker, Michael Fettweis, Also Sottolichio, Rolf Riethmüller	SS5G - Anthropocene and Holocene environmental changes – the past as a window into the future Chair: Dierk Hebbeln, Daniel Hepp, Helge Arz
15:00-15:15	[O1.45] Catchment-scale modelling approach for facilitating management of stormwater harvesting in a tropical reservoir J. Zhang ^{*1} , K.C. Mynampati ² , K.Y.H. Gin ¹ , ¹ National University of Singapore, Singapore, ² Hydroinformatics Institute, Singapore	[O2.45] Connectivity of forests, rivers, and seas - Relation between land-use and water quality S. Hashiguchi ^{*1} , T. Kanzaki ¹ , A. Kasai ² , Y. Tamura ³ , R. Sugimoto ⁴ , T. Rihei ⁴ , N. Arai ^{1,5} , Y. Yamashita ¹ , ¹ Kyoto University, Japan, ² Hokkaido University, Japan, ³ Oita Prefecture, Japan, ⁴ Fukui Prefectural University, Japan, ⁵ CREST, JST, Japan	[O3.45] Seasonal shifts in feeding strategies of three-spined stickleback (<i>Gasterosteus aculeatus</i>, L. 1758) in salt-marsh creeks dependent on grazing and flooding events J. Friese [*] , A. Dänhardt, A. Temming, Universität Hamburg, Germany	[O4.40] A lagrangian view of anthropogenic pollutants behaviors in Dan-Shui estuary of Taiwan H. Chien [*] , Y.Z. Zhong, H.Y. Cheng, Y.C. Chang, H.M. Chang, S.T. Wei, National Central University, Taiwan	[O5.40] An interdisciplinary approach to study long-term coastal exploitation at holbox island in the north coast of Quintana Roo, México N. Rubio-Cisneros ^{*1} , J. Herrera-Silveira ¹ , M. Moreno-Baez ² , A. Saenz-Arroyo ³ , D. Rissolo ⁴ , J. Glover ⁵ , C. Gotz ⁶ , S. Morales-Ojeda ¹ , ¹ Centro de Investigación y de Estudios Avanzados(CINVESTAV), Unidad Mérida, Mexico, ² Independent Researcher, USA, ³ El Colegio de la Frontera Sur (ECOSUR), Mexico, ⁴ University of California, USA, ⁵ Georgia State University, USA, ⁶ Facultad de Ciencias Antropológicas,

					<i>Universidad Autónoma de Yucatán, Mexico</i>
15:15-15:30	[O1.46] Approach methodology of the validity of models used in the study of groundwater vulnerability of Mitidja D. Hallal* ¹ , A.C. Toubal ² , ¹ ENSH, Algeria, ² USTHB, Algeria	[O2.46] Connectivity of forests, rivers and seas - Relationship between land-use and aquatic biological production T. Kanzaki* ¹ , T. Sogabe ¹ , S. Hashiguchi ¹ , M. Harada ¹ , R. Tsurukawa ² , N. Mochioka ² , A. Kasai ³ , Y. Tamura ⁴ , H. Yokoyama ¹ , N. Arai ¹ , Y. Yamashita ¹ , ¹ Kyoto University, Japan, ² Kyusyu University, Japan, ³ Hokkaido University, Japan, ⁴ Oita Prefecture, Japan	[O3.46] Does prey selection and feeding location affect juvenile fish condition? C. Mendes* ^{1,2} , S. Ramos ² , M. Elliott ³ , A.A. Bordalo ^{1,2} ¹ University of Porto (ICBAS-UP), Portugal, ² Interdisciplinary Centre of Marine and Environmental Research (CIIMAR), Portugal, ³ University of Hull, UK	[O4.41] Episodic subsurface phytoplankton blooms enhanced by cross-front and cross-pycnocline exchanges off the Zhejiang Coast, China F. Zhou, <i>Second Institute of Oceanography, State Oceanic Administration, China</i>	[O5.41] Short and sharp, benthic change in Marlborough Sounds, New Zealand S.J. Handley, <i>National Institute of Water and Atmosphere (NIWA), New Zealand</i>
15:30-15:45	[O1.47] Numerical modelling investigation of the hydro-environmental seasonal characteristics of a large arid low-inflow estuary: Northern Arabian Gulf T. Pokavanich* ¹ , Y. Al-Osairi ¹ , A.J. Nolte ² , R. Morelissen ² , T. Al-Said ¹ , ¹ Kuwait Institute for Scientific Research, Kuwait, ² Deltares, The Netherlands	[O2.47] Integrated assessment of anthropogenic pollution loads discharged into the coastal zone of Cartagena Bay, Colombia M. Tosic* ^{1,2} , J.D. Restrepo ¹ , R. Escobar ¹ , A. Izquierdo ² , S. Lonin ³ , F. Martins ⁴ , ¹ EAFIT University, Colombia, ² University of Cadiz, Spain, ³ Naval School "Almirante Padilla", Colombia, ⁴ University of Algarve, Portugal	[O3.47] Spawning during the period of low potential connectivity in an eastern boundary upwelling system A. Ospina-Alvarez* ¹ , S. Navarrete ² , C.M. Aiken ¹ ¹ Millennium Nucleus - Marine Conservation Center, Chile, ² Pontificia Universidad Católica de Chile, Chile	[O4.42] Assessing biophysical effects of offshore wind farms on the North Sea pelagic ecosystem - lessons learned from 3 field campaigns T. Dudeck ^{1,2} et al, ¹ University of Hamburg, Germany, ² Helmholtz-Zentrum Geesthacht, Centre for Materials und Coastal Research, Germany	[O5.42] Use of palaeo-based methods for source identification and high resolution heavy metal assessment to improve future management within historically contaminated Ramsar wetlands A.J. Trewarn* ¹ , J.M. Reeves ¹ , B.C. Panther ¹ , S.M. Reichman ² , P. Gadd ³ , ¹ Federation University Australia, Australia, ² RMIT University, Australia, ³ Australian Nuclear Science and Technology Organisation, Australia
15:45-16:00	[O1.48] Comparison of a satellite-derived high-resolution current map and numerical modelling of submesoscale eddies in a shallow-water domain E. Wolanski* ¹ , P. Delandmeter ² , W. Chen ³ , J. Lambrechts ² , V. Legat ² , G. Marmorino ³ , E.	[O2.48] Sediment and particulate carbon input and retention in reservoirs of the tropical Brantas River, Java, Indonesia, related to human interventions and extreme events T.C. Jennerjahn*, I. Jaenen <i>Leibniz Center for Tropical</i>	[O3.48] Bridging the gap from ecosystem-based management to landscape scale management for connected tropical marine ecosystems L.G. Gillis* ¹ , C.G. Jones ² , A.D. Ziegler ¹ , D. van der Wal ³ , A. Breckwoldt ¹ , T.J. Bouma ³ ¹ Leibniz-Zentrum für Marine		[O5.43] 500 years sediment record from the Segara Anakan lagoon, Java, Indonesia: Environmental dynamics and human impacts K.A. Hapsari* ¹ , T. Jennerjahn ² , M. Lukas ^{3,4} , H. Behling ¹ ¹ University of Goettingen, Germany, ² Leibniz Center for

	Deleersnijder ^{2,4} , ¹ James Cook University, Australia, ² Université catholique de Louvain, Belgium, ³ Naval Research Laboratory, USA, ⁴ Delft University of Technology, The Netherlands	Marine Ecology, Germany	Tropenökologie GmbH, Germany, ² Cary Institute of Ecosystem Studies, USA, ³ National University of Singapore, Singapore, ⁴ Royal Netherlands Institute for Sea Research, The Netherlands		Tropical Marine Ecology (ZMT) Bremen, Germany, ³ MARUM – Center for Marine Environmental Sciences, Germany; ⁴ Sustainability Research Center (artec), University of Bremen, Germany
16:00-16:30	Coffee/Tea Room: CCB Foyer				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
16:30-18:30	SS1G - Estuarine numerical model development and applications Chair: Hans Burchard, Elisabeth Schulz, Christian Winter	SS2F - Polar estuaries and coasts in transition Chair: Ingeborg Bussmann, George Tanski, Boris Koch, Karen Wiltshire		SS4G - A practical illustration of the human dimension in coastal systems and its drivers for change Chair: Grit Martinez	SS5G - Anthropocene and Holocene environmental changes – the past as a window into the future Chair: Dierk Hebbeln, Daniel Hepp, Helge Arz
16:30-16:45	[O1.49] River runoff driven changes in sediment budgets and channel-shoal interaction in the Weser estuary A.C. Zorndt*, F. Kösters, Bundesanstalt für Wasserbau, Germany	[O2.49] Phytoplankton cycle and river discharge impacts on the seasonal variability of nutrients and trace metals in the Razdolnaya River estuary, Russian Far East V.M. Shulkin*, P.Y. Tishchenko, P.S. Semkin, M.G. Shvetsova Pacific Geographical Institute, Russian Academy of Sciences, Far Eastern Branch, Vladivostok, Russia	16:30-18:00 Workshop: Student and Early Career Researcher Workshop: Publishing and Reviewing in International Journals Chair: Prof. Mike Elliott, <i>Editor-in- Chief: Estuarine, Coastal and Shelf Science, University of Hull, UK</i> ; Prof. Eric Wolanski, <i>Australian Institute of Marine Science, Australia</i> and Prof. Victor de Jonge, <i>Editor-in- Chief: Ocean & Coastal Management, University of Hull, UK</i>	[O4.44] Investigating the impacts of climate change and anthropogenic pollution of coastal lagoons: A field survey of selected lagoons in Ghana I. Boateng*, S. Mitchell, F. Couceiro, <i>University of Portsmouth, UK</i>	[O5.44] Holocene relative sea-level record for the Java Sea (Indonesia) reconstructed from fossil microatolls T. Mann* ¹ , P.S. Kench ² , A. Rovere ³ , T. Schöne ⁴ , P. Stocchi ⁵ , A. Marfai ⁶ , H. Westphal ^{1,7} , ¹ Leibniz Center for Tropical Marine Ecology (ZMT), Germany, ² School of Environment, New Zealand, ³ Center for Marine Environmental Sciences (MARUM), Germany, ⁴ Helmholtz Centre Potsdam (GFZ), Germany, ⁵ NIOZ Royal Netherlands Institute for Sea Research, The Netherlands, ⁶ Universitas Gadjah Mada, Indonesia, ⁷ University of Bremen, Germany

<p>16:45-17:00</p>	<p>[O1.50] Modelling sediment fluxes and budgets in the Seine estuary E. Schulz*, F. Grasso, P. Le Hir, B. Thouvenin, <i>Ifremer, France</i></p>	<p>[O2.50] Methane distribution and oxidation around the Lena Delta in summer 2013 I. Bussmann*, S. Hackbusch, P. Schaal, <i>Alfred Wegener Institut, Germany</i></p>		<p>[O4.45] Current status of coastal dune systems of Catalan shore (Spain, NW Mediterranean sea) and changes in the last 150 years C. Garcia-Lozano*, J. Pintó, <i>University of Girona, Spain</i></p>	<p>[O5.45] Fluvial response to Holocene marine transgression: Examples from submerged tributaries to the Elbe-Palaeovalley in the German Bight (North Sea) D.A. Hepp*¹, D. Hebbeln¹, H. Keil^{1,2}, T. Mörz¹, ¹MARUM – Center for Marine Environmental Sciences, Germany, ²University of Bremen, Germany</p>
<p>17:00-17:15</p>	<p>[O1.51] Effects of topographical structures on mixing, secondary circulation and estuarine exchange flow J.U. Pein*, E.V. Stanev, <i>Helmholtz-Zentrum Geesthacht, Germany</i></p>	<p>[O2.52] The influence of global warming on organic matter cycling in high Arctic fjords K. Koziarowska*, K. Kulinski, J. Pempkowiak, <i>Institute of Oceanology Polish Academy of Sciences, Poland</i></p>		<p>[O4.46] RISC-KIT guide - a web-based guide to facilitate learning and exchange about disaster risk reduction measures N. Stelljes*, K. Beese, K. McGlade, <i>Ecologic Institute, Germany</i></p>	<p>[O5.46] Anthropogenic induced heavy metal pollution in the Helgoland mud area F. Boxberg*, D. Hebbeln, <i>Marum-Center for Marine Environmental Sciences, Germany</i></p>
<p>17:15-17:30</p>	<p>[O1.52] Modeling study of the Columbia River estuary (USA) with different meteorological models I. Scroccaro*^{1,2}, A. Baptista¹, P. Turner¹, T. Karna¹, J. Lopez¹, C. Seaton¹, ¹Oregon Health & Science University, USA, ²ARPA FVG, Italy</p>	<p>[O2.53] Carbon flow through a kelp belt food web in Kongsfjorden (Spitsbergen) M. Paar*, H. Asmus, R. Asmus <i>Alfred Wegener Institut, Germany</i></p>		<p>[O4.47] Identifying disaster risk reduction measures through multi-criteria analysis. Lessons from RISC-KIT in eleven European coastal cities K. Barquet, <i>Stockholm Environment Institute, Sweden</i></p>	<p>[O5.47] The Wadden Sea - Archive of landscape evolution, climate change and settlement history-Presentation of two consecutive joint-venture projects M. Karle*¹, J. Goldhammer¹, A. Bartholomä², F. Bittmann¹, F. Bungenstock¹, H. Jöns¹, A. Siegmüller¹, A. Wehrmann², A. Wurpts³, B. Zolitschka⁴ ¹Lower Saxony Institute for historical coastal research, Germany, ²Senckenberg – Marine Research, Germany, ³Niedersächsischer Landesbetrieb für Wasserwirtschaft, Küsten- und</p>

					<i>Naturschutz Forschungsstelle Küste, Germany, ⁴University of Bremen, Germany</i>
17:30-17:45	<p>[O1.53] A baroclinic three-dimensional model for the entire Wadden Sea H. Burchard*¹, T.H. Badewien², J. Becherer^{1,3}, G. Flöser⁴, T. Gerkema⁵, U. Gräwe¹, K. Klingbeil¹, M. Duran-Matute^{5,6}, E. Schulz⁷, ¹<i>Leibniz Institute for Baltic Sea Research Warnemünde, Germany, ²Carl-von-Ossietzky University, Institute for Chemistry and Biology of the Marine Environment, Germany, ³Oregon State University, USA, ⁴Helmholtz-Zentrum Geesthacht, Institute for Coastal Research, Germany, ⁵Royal Netherlands Institute for Sea Research, The Netherlands, ⁶Eindhoven University of Technology, The Netherlands, ⁷IFREMER, Laboratoire de Physique Hydrodynamique et Sédimentaire, France</i></p>	<p>[O2.54] Polar change in a West Antarctic coastal system: Results from 25-year multidisciplinary research D. Abele*^{1,2}, R. Sahade⁴, F. Momo⁵, L. Quartino², A. Vanreusel⁶, F. Pasotti⁶, K. Jerosch¹, U. Falk⁷, M. Braun⁸, I. Schloss^{2,3}, P. Monien⁹, G. Kuhn¹, C. Hass¹ et al, ¹<i>Alfred-Wegener Institute, Helmholtz Centre for Polar and Marine Science, Germany, ²Instituto Argentino Antártico, Argentina, ³Institute de Science de la Mer, Canada, ⁴University Cordoba, Argentina, ⁵University Gral Sarmiento, Argentina, ⁶University Gent, Belgium, ⁷University Bremen, Germany, ⁸University Erlangen-Nurmburg, Germany, ⁹Leibnitz Center for Marine Tropical Ecology, Germany</i></p>		<p>[O4.48] Integrating chains of DRR measures in coastal impact assessment: An application in Varna, Bulgaria L. Cumiskey*¹, S. Priest², N. Valchev³, N. Andreeva³, P. Eftimova³, ¹<i>Deltares, The Netherlands, ²Middlesex University, UK, ³Institute of Oceanology – Bulgarian Academy of Sciences, Bulgaria</i></p>	<p>[O5.48] Long-term evolution of estuaries and tidal basins: Lessons from the Holocene evolution of the Dutch coast T. de Haas*, H.J. Pierik, M.G. Kleinhans, <i>Universiteit Utrecht, The Netherlands</i></p>
17:45-18:00	<p>[O1.54] Sensitivity of phytoplankton distribution on large-scale deepening in turbid estuaries B. Liu*¹, H.E. De Swart¹, V.N. De Jonge², ¹<i>Utrecht University, The Netherlands, ²University of Hull, UK</i></p>			<p>[O4.49] Towards the improvement of the Emilia-Romagna coastal EWS: Bridging scientific knowledge with stakeholder’s needs and perspectives C. Armaroli^{1,2}, P. Ciavola*^{1,2}, L. Perini³, ¹<i>Consorzio Futuro in Ricerca, Italy, ²University of Ferrara, Italy, ³Geological, Seismic and Soil Service, Emilia-</i></p>	<p>[O5.49] A multiproxy approach to reconstructing the eutrophication history of a southern Baltic coastal lagoon T. Radziejewska¹, R.K. Borówka¹, A. Kaniak¹, A. Kosakowska², M. Lotocka², A. Skrzypacz¹, M. Sobiechowska², W. Szczuciski³, B. Wawrzyniak-Wydrowska*¹, A. Witkowski¹, ¹<i>University of Szczecin, Poland,</i></p>

				Romagna Region, Italy	² Institute of Oceanology, Polish Academy of Sciences, Poland, ³ Adam Mickiewicz University, Poland
18:00-18:15	[O1.55] Simulate distribution pattern of species by coupling habitat suitability model and individual migration model in estuaries H.Y. Zhang*, T. Sun, S.F. Xue, W. Yang, <i>Beijing Normal University, China</i>				
18:15-18:30	[O1.56] Improving understanding of hydrocarbon spill impacts in tropical estuaries through joining slick probability modelling and ecotoxicology data O. Makarynskyy* ¹ , A.P. Negri ¹ , D. Makarynska ² , D.K. Williams ¹ ¹ AIMS, Australia, ² AECOM Services, Australia				

Wednesday, 7 September 2016

	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room: Lloyd	Room: Danzig
08:00-10:10	GS1B - From measuring to modelling hydro- and sediment dynamics Chair: Michael Fettweis	GS2B - From catchment to coast: effects of land use change and hydrological regulations Chair: Carlos Rezende	GS3D - Stress responses: from molecular to ecosystem level Chair: Raquel Vaquer-Sunyer	GS4C - Marine and coastal spatial planning/ decision support Chair: Achim Schlüter	SS3E - Analysing, assessing and judging integrated ecosystem food webs and other networks Chair: Victor de Jonge, Harald Asmus
08:00-08:15	[O1.57] Wave energy distribution across a tidal flat: Araçá bay, Brazil E. Siegle, <i>Universidade de Sao Paulo, Brazil</i>	[O2.55] Are we reaching a climax? Understanding the impact of artificial stabilization of the west-frysian barrier islands V.C. Reijers*, M. van den Akker, P.M.J.M. Cruijisen, L.P.M.	[O3.49] Spatial and temporal structure of plankton communities subjected to environmental fluctuations in the Coorong, South Australia D.A. Hemraj* ¹ , J.G. Qin ¹ , Q. Ye ² , A. Hossain ¹ , S. Leterme ¹ ,	[O4.50] Sea-level rise and onsite wastewater treatment system failure in coastal communities T.F. Frazier, A.G. Peterson*, M. Ritchie, E.E. Sykes, <i>Binghamton University, USA</i>	[O5.50] Is one set of network indices enough to describe estuarine ecosystems? M. Tagliarolo*, U.M. Scharler <i>University of KwaZulu Natal, South Africa</i>

		Lamers, T. van der Heide <i>Radboud University, The Netherlands</i>	¹ <i>Flinders University, Australia,</i> ² <i>South Australian Research and Development Institution, Australia</i>		
08:15-08:30	[O1.58] Wave energy dissipation across reef flats with varying structural diversity D.L. Harris* ¹ , H.E. Power ¹ ¹ <i>Leibniz Center for Tropical Marine Ecology (ZMT) and Centre for Marine Environmental Science (MARUM), Germany,</i> ² <i>The University of Newcastle, Australia</i>	[O2.56] Seawalls modify wrack dynamics in mangrove forests L.P. Critchley*, M.J. Bishop, <i>Macquarie University, Australia</i>	[O3.50] Physiological and molecular adaptations of dinoflagellates in the coastal waters of the Baltic Sea S.O. Skarlato* ¹ , I.V. Telesh ^{1,2} ¹ <i>Institute of Cytology of the Russian Academy of Sciences, Russia,</i> ² <i>Zoological Institute of the Russian Academy of Sciences, Russia</i>	[O4.51] A detailed protocol for mapping and assessing the vulnerability of coastal infrastructure R.S. Young, <i>Western Carolina University, USA</i>	[O5.51] Network analysis as a mean to understand the spatial variation in the 'scope for ecological development' of an estuarine system V.N. de Jonge* ¹ , U. Schückerl ¹ , D. Baird ¹ , ¹ <i>University of Hull, UK,</i> ² <i>Senckenberg am Meer, Germany,</i> ³ <i>Stellenbosch University, South Africa</i>
08:30-08:45	[O1.59] Dynamics of the salinity front in the river Elbe estuary J. Schulz-Stellenfleth*, E.V. Stanev, <i>Helmholtz-Zentrum Geesthacht (HZG), Germany</i>	[O2.57] Livestock grazing affects soil chemistry and allochthonous organic inputs, thereby mediating microbial activity and community structure in salt-marsh soils P. Mueller*, D. Granse, H.D. Thi, M. Weingartner, S. Nolte, S. Hoth, K. Jensen, <i>University of Hamburg, Germany</i>	[O3.51] Water temperature and salinity drive response to hydrodynamic forcing of <i>Laminaria digitata</i> to improve readability in the conference proceedings M. Paul* ^{1,3} , A.-J. Eversten ¹ , ¹ <i>Technische Universität Braunschweig, Germany,</i> ² <i>Norwegian University of Science and Technology, Norway,</i> ³ <i>Forschungszentrum Küste, Germany</i>	[O4.52] Collaborative working between regulator and developer to agree hydrodynamic monitoring and intervention criteria within an estuary: The case of a large infrastructure project, Mersey Estuary, UK L.J. Swift* ¹ , A. Wright ² , ¹ <i>Environment Agency, UK,</i> ² <i>AECOM, UK</i>	[O5.52] Food web characteristics of six intertidal habitat types of the Wadden Sea S. Horn*, C. de la Vega, R. Asmus, H. Asmus, <i>Alfred-Wegener-Institute Helmholtz-Center for Polar- and Marine Research, Wadden Sea Station Sylt, Germany</i>
08:45-09:00	[O1.60] Human regulation of fresh-salt water budget and hypoxia in semi enclosed seas A. Gianni, I. Zacharias*, <i>University of Patras, Greece</i>	[O2.58] Tracing the mercury biogeochemical cycle in a subtropical mangrove C.P. Fragoso ¹ , E. Bernini ² , M.G. de Almeida ¹ , B.F. Araújo ¹ , C.E. de Rezende* ¹ , ¹ <i>Universidade Estadual do Norte Fluminense (UENF), Brazil,</i> ² <i>Universidade Federal da Paraíba, Brazil</i>	[O3.52] Effects of multiple stressors on Arctic phytoplankton assemblages from Kongsfjorden (Svalbard) C.J.M. Hoppe*, K. Wolf, B. Rost <i>Alfred Wegener Institute - Helmholtz Center for Polar and Marine Research, Germany</i>	[O4.53] City co-design platform on urban resilience to floods – a case study of Shetzu Island of Taiwan Y.C. Chiang* ¹ , C.L. Wu ^{1,2} , K.C. Wen ¹ , ¹ <i>Department & Graduate Institute of Architecture and Urban Design, Chinese Culture University, Taiwan,</i> ² <i>Interactive Digital Technologies Inc., Taiwan</i>	[O5.53] Spatial variation in food web structure and function in the Wadden Sea: How are food webs going to respond on the basis of their environmental constraints ? U. Schückerl* ¹ , I. Kröncke ¹ , D. Baird ² , ¹ <i>Senckenberg am Meer, Germany,</i> ² <i>Department of Botany and Zoology, South Africa</i>
09:00-09:10	<i>Synchronization Break</i>				

09:10-09:25	<p>[O1.61] Light attenuation in a shallow lagoon: Dependence on SLR and extreme freshwater discharge L. Vaz*, J.M. Dias, N. Vaz, <i>University of Aveiro, Portugal</i></p>	<p>[O2.59] The Ramsar wetland of O Grove-Umia: From an 'anthropogenically-modified' to a 'natural' state of sediment contamination M.A. ÁlvarezVázquez*^{2,1}, S. González³, S. Calvo¹, R. Prego¹ ¹<i>Instituto de Investigaciones Marinas (IIM-CSIC), Spain,</i> ²<i>University of Vigo, Spain,</i> ³<i>Instituto de Investigaciones Agrobiológicas de Galicia (CSIC), Spain</i></p>	<p>[O3.53] Temperature-induced alteration of top-down control impairs the baltic sea fucus vesiculosus system during summer and winter B. Matthiessen*¹, A. Graiff², F.J. Werner¹, ¹<i>GEOMAR Helmholtz-Zentrum für Ozeanforschung Kiel, Germany,</i> ²<i>Universität Rostock, Germany</i></p>	<p>[O4.54] Developing an estuarine planning support system: A case study for the Humber Estuary, Eastern England J. Lonsdale*^{1,2}, M. Elliott¹, K. Weston², ¹<i>University of Hull, UK,</i> ²<i>Cefas, UK</i></p>	<p>[O5.54] The food web of the Wadden Sea in a warmer world - A case study of the Sylt- Romo Bight H. Asmus*, R-M. Asmus, C. de la Vega, S. Horn, <i>Alfred-Wegener Institute, Germany</i></p>
09:25-09:40	<p>[O1.62] Bayesian network modelling of morphological evolution in salt marshes: The role of morphometric system status indices exploiting high resolution spatial datasets B. Evans*¹, I. Möller¹, G. Smith¹, T. Spencer², ¹<i>University of Cambridge, UK,</i> ²<i>Specto Natura, UK</i></p>	<p>[O2.60] Coupling of watersheds, estuaries and regional seas through numerical modelling for Western Iberia: Estuarine fluxes influence in the near open ocean F.J. Campuzano*¹, I. Ascione Kenov², D. Brito³, M. Juliano⁴, H. De Pablo¹, S. Sobrinho¹, R. Fernandes³, R. Neves¹ ¹<i>Universidade de Lisboa, Portugal,</i> ²<i>Met Office, UK,</i> ³<i>Action Modulers, Consulting and Technology, Portugal,</i> ⁴<i>Universidade dos Açores, Portugal</i></p>	<p>[O3.54] Assessing the ecological status of seagrasses across environmental gradients - An example from Halophila stipulacea growing in the northern Gulf of Aqaba, Red Sea A. Rotini¹, A.Y. Mejia¹, L. Migliore¹, G. Winters*², ¹<i>Tor Vergata University, Italy,</i> ²<i>The Dead Sea-Arava Science Center, Tamar Regional Council, Israel</i></p>	<p>[O4.55] Multi-risk assessments in the context of adaptive marine management: The case study of the Adriatic sea E. Furlan*^{1,2}, S. Torresan^{1,2}, A. Critto^{1,2}, A. Marcomini^{1,2} ¹<i>University Ca' Foscari Venice, Italy,</i> ²<i>Centro-Euro Mediterraneo sui Cambiamenti Climatici (CMCC), Italy</i></p>	<p>[O5.55] Foundation species enhance food web complexity through random non-trophic facilitation A.C.W. Borst*¹, W.C.E.P. Verberk¹, C. Angelini², E. van der Zee³, M.J.A. Christianen⁴, T. van der Heide¹, ¹<i>Radboud University Nijmegen, The Netherlands,</i> ²<i>University of Florida, USA,</i> ³<i>Altenburg & Wymenga Ecological research, The Netherlands,</i> ⁴<i>University of Groningen, The Netherlands</i></p>
09:40-09:55	<p>[O1.63] Numerical simulation of the long-term coastal profile evolution M. Lavrentiev*¹, R. Spigler², E. Goriounov¹, A. Romanenko¹ ¹<i>Novosibirsk State University, Russia,</i> ²<i>Roma Tre University, Italy</i></p>	<p>[O2.61] Marine chemistry in the coastal environment: Principles, perspective and prospectus T.M. Church, <i>University of Delaware, USA</i></p>	<p>[O3.55] Nutrient uptake and enzymatic activity of Cymodocea serrulata (R.Brown), under varying concentrations and sources of nitrogen and phosphorous D.A. Saavedra Hortua*, I. González Viana, M. Schulz, D. Hoiejmakers, E.F. Belshe, M. Teichberg, <i>Leibniz Center for</i></p>	<p>[O4.56] Participatory adaptive land use planning and assessment to improve regional governance and statutory spatial planning of a low-lying North Sea municipal region L. Karrasch*, T. Klenke, <i>University of Oldenburg, Germany</i></p>	<p>[O5.56] <i>Withdrawn</i></p>

			<i>Tropical Marine Ecology (ZMT) GmbH, Germany</i>		
09:55-10:10	[O1.64] A continuum of knowledge from measurements to modelling as management support for the exploitation of marine aggregates, Belgian part of the North Sea N. Terseleer* ¹ , V. Hademenos ² , T. Missiaen ² , J. Stafleu ³ , D. Van den Eynde ¹ , V.R.M. Van Lancker ¹ ¹ Royal Belgian Institute of Natural Sciences, Belgium, ² Ghent University, Belgium, ³ TNO – Geological Survey of the Netherlands, The Netherlands	[O2.62] River-ocean models as support to eutrophication management X. Desmit ¹ , G. Lacroix ¹ , V. Dulière* ¹ , V. Thieu ² , F. Campuzano ³ , N. Gypens ⁴ , C. Lancelot ⁴ , R. Neves ³ , A. Ménesguen ⁵ , G. Billen ² et al, ¹ Royal Belgian Institute of Natural Sciences, Belgium, ² Univeristé Pierre et Marie Curie, France, ³ Instituto do Mar, Portugal, ⁴ Université Libre de Bruxelles, Belgium, ⁵ IFREMER, France	[O3.56] The relative importance of ecosystem engineering and growth rate in determining seagrass resilience to eutrophication L.M. Soissons* ¹ , B. Li ² , Q. Han ² , M.M. van Katwijk ³ , P.M.J. Herman ³ , T.J. Bouma ¹ , ¹ Royal Netherlands Institute for Sea Research (NIOZ-Yerseke), The Netherlands, ² Yantai Institute of Coastal Zone Research – Chinese Academy of Sciences (YIC-CAS), China, ³ Radboud University Nijmegen, The Netherlands	[O4.57] Developing an ecosystem services based coastal future vision in Belgium K. Van der Biest*, P. Meire <i>University of Antwerp, Belgium</i>	
10:10-10:40	Coffee/ Tea Room: CCB Foyer				
	Room: London Room	Room: Borgward	Room: Focke-Wulf	Room:	Room: Danzig
10:40-12:50	GS1D - Monitoring with coastal ocean observing systems Chair: Aldo Sottolichio	GS2D - Blue carbon: assessing the role and carbon storage potential of coastal wetlands Chair: Martin Zimmer	GS3D - Stress responses: from molecular to ecosystem level Chair: Bernardo Duarte	GS4C - Marine and coastal spatial planning/ decision support Chair: Johannes Herbeck	SS2E - The Subterranean Estuary Chair: Nils Moosdorf, Hannelore Waska
10:40-10:55	[O1.65] Shoreline changes interpreted from multi-temporal remote sensing data: Semarang, Indonesia M.L. Rex* ¹ , H. Westphal ¹ , M.A. Marfai ² , T. Mann ¹ , H. Helmi ⁴ , D. Thürkow ³ , ¹ ZMT, Germany, ² Gadjah Mada University, Indonesia, ³ Universität Halle, Germany, ⁴ Diponegoro University, Indonesia	[O2.63] Ponding and salt marsh carbon dynamics A.C. Spivak* ¹ , K.M. Gosselin ¹ , M.E. Gonneea ² , ¹ Woods Hole Oceanographic Institution, USA, ² USGS Woods Hole Coastal and Marine Science Center, USA	[O3.57] Seagrass fitness under ocean warming and acidification T.R. Repolho ¹ , B. Duarte* ¹ , G. Dionísio ^{1,2} , J.R. Paula ¹ , A. Lopes ¹ , T. Grilo ¹ , I.C. Rosa ¹ , R. Calado ² , I.C. Caçador ¹ , R. Rosa ¹ ¹ MARE – Marine and Environmental Sciences Centre, Portugal, ² Universidade de Aveiro, Portugal	[O4.58] Adapting to rapid coastal change - cases from Ghana and Indonesia J. Herbeck*, M. Flitner, <i>University of Bremen, Germany</i>	[O5.57] Fingering flow in the context of submarine groundwater discharge under tidal forcing T. Birner ¹ , J. Greskowiak ² , G. Massmann* ² , ¹ Universität Potsdam, Germany, ² Carl von Ossietzky University, Germany
10:55-11:10	[O1.66] Monitoring water quality in coastal systems with	[O2.64] Mangrove exporter or importer of dissolved organic	[O3.58] Effects of acute temperature shock on oxygen	[O4.59] Proposal of a low-cost and time methodology for	[O5.58] Subsurface travel times, flow patterns and discharge

	<p>drones L. De Keukelaere*, D. Raymaekers, E. Knaeps, B. Decrop, M. Bollen, <i>VITO, Belgium</i></p>	<p>carbon? A. Camacho-Rico*, J.A. Herrera-Silveira, I. Mariño-Tapia, <i>CINVESTAV-IPN, Mexico</i></p>	<p>consumption, electron transport system activity and heat shock protein expression in the sea cucumber, <i>Holothuria scabra</i> H. Kuehnhold*¹, L.F. Indriana², M.J. Slater³, A. Kunzmann¹ ¹<i>Leibniz Center for Tropical Marine Ecology (ZMT), Germany,</i> ²<i>The Indonesian Institute of Science, Research Centre for Oceanography (LIPI), Indonesia,</i> ³<i>Alfred Wegener Institute, Helmholtz-Centre for Polar and Marine Research (AWI), Germany</i></p>	<p>coastal and marine spatial planning in complex systems C.M. Botero*¹, M. Tosic², J. Prussmann³, ¹<i>Universidad Sergio Arboleda, Colombia,</i> ²<i>Playas Corporacion Ltd, Colombia,</i> ³<i>EAFIT University, Colombia</i></p>	<p>rates at meso-tidal beaches, Spiekeroog J. Greskowiak*, G. Massmann <i>University of Oldenburg, Germany</i></p>
<p>11:10-11:25</p>	<p>[O1.67] Coastal observing systems in support of harbour operations and water quality management, Northern Territory, Australia D. Williams*, C. Steinberg, P. Rigby, <i>Australian Institute of Marine Science, Australia</i></p>	<p>[O2.65] The impact of mangrove expansion on estuarine function R.H. Bulmer*^{1,2}, L. Schwendenman¹, C.J. Lundquist^{1,2}, ¹<i>University of Auckland, New Zealand,</i> ²<i>National Institute of Water and Atmospheric Research, New Zealand</i></p>	<p>[O3.59] Investigating gene-level responses of globally relevant processes of an estuarine sediment community to multiple stressors S.C. Birrer*¹, K.A. Dafforn¹, R.B.H. Williams² et al ¹<i>University of New South Wales, Australia,</i> ²<i>The Singapore Centre on Environmental Life Sciences Engineering, Singapore,</i> ³<i>NSW Office of Environment and Heritage, Australia,</i> ⁴<i>Southern Cross University, Australia,</i> ⁵<i>CSIRO Land and Water, Australia,</i> ⁶<i>The University of Sydney, Australia</i></p>	<p>[O4.60] Marine & estuarine spatial planning & management - conflicts between economic development and ecological functioning M. Elliott*¹, A. Borja², ¹<i>University of Hull, UK,</i> ²<i>AZTI-Tecnalia, Spain</i></p>	<p>[O5.59] Redox sensitive trace metal cycling in a sandy subterranean estuary A. Reckhardt*¹, J. Greskowiak², H-J. Brumsack¹, ¹<i>Institute for Chemistry and Biology of the Marine Environment (ICBM), Germany,</i> ²<i>Institute for Biology and Environmental Sciences, Germany</i></p>
<p>11:25-11:40</p>	<p>[O1.68] Observation system evaluation (OSE) for the German Bight network with emphasis on the impact of multi-platform temperature and salinity monitoring S. Grayek*, E. Stanev, <i>Helmholtz-</i></p>	<p>[O2.66] Carbon stock and sequestration of monospecific vegetation <i>Enhalus acoroides</i> at Pari Island, Seribu Islands, Jakarta Bay, Indonesia I.M. Radjawane*¹, D.F. Sidiq¹, W. Kiswara², ¹<i>Bandung Institute of</i></p>	<p>[O3.60] Sensitivity and adaptation of bivalve larvae to ocean acidification J. Thomsen*¹, L. Stapp^{2,3}, K. Haynert⁴, H. Schade¹, M. Danelli¹, G. Lannig², K.M. Wegner², F. Melzner¹</p>	<p>[O4.61] Using spatial optimisation to identify variability in ecosystem service provision under different management scenarios on Chile's central coast S. de Juan*¹, A. Ospina-Alvarez¹,</p>	<p>[O5.60] Metal-DOM interactions in the subterranean estuary: Implications for trace metals and DOM mobility H. Waska*¹, D. Dittmar¹, H. Simon¹, A. Linkhorst², ¹<i>University of Oldenburg, Germany,</i> ²<i>Uppsala</i></p>

	Zentrum Geesthacht (HZG), Germany	Technology, Indonesia, ² Indonesian Institute of Science, Indonesia	¹ GEOMAR, Germany, ² Alfred Wegener Institute, Germany, ³ University of Bremen, Germany, ⁴ University of Goettingen, Germany	K. Davis ² , C. Gonzalez ¹ , M. Fernandez ¹ , ¹ Pontificia Universidad Católica de Chile, Chile, ² University of Queensland, Australia	University, Sweden
11:40-11:50	<i>Synchronization Break</i>				
11:50-12:05	[O1.69] The Coastal Observing System for Northern and Arctic Seas (COSYNA): Challenges and solutions for an integrated measurement and modelling approach H. Brix, <i>Institute of Coastal Research, HZG, Germany</i>	[O2.67] Blue carbon: The mangroves from Mexico J.A. Herrera-Silveira ^{*1} , C. Teutli-Hernández ² , M.F. Adame ³ , J. Caamal-Sosa ¹ , L. Carrillo ¹ ¹ CINVESTAV-IPN, Unidad Merida, Mexico, ² University of Barcelona, Spain, ³ Griffith University, Australia	[O3.61] Giant clams in a changing ocean: Impact of warming and acidification on the photophysiology of the solar-powered <i>Tridacna maxima</i> B. Duarte ^{*1} , G. Dionísio ^{2,3} , C. Santos ^{2,4} et al, ¹ MARE – Marine and Environmental Sciences Centre, Faculdade de Ciências da Universidade de Lisboa, Portugal, ² MARE – Marine and Environmental Sciences Centre, Laboratório Marítimo da Guia, Faculdade de Ciências da Universidade de Lisboa, Portugal, ³ Universidade de Aveiro, Portugal, ⁴ University of Porto, Portugal	[O4.62] An interdisciplinary approach can maximize the protection offered by oyster reefs B. Walles ^{*1} , B.C. van Prooien ² , T. Ysebaert ^{1,3} , ¹ NIOZ Royal Netherlands Institute for Sea Research and University of Utrecht, The Netherlands, ² Delft University of Technology, The Netherlands, ³ IMARES Institute for Marine Resources and Ecosystem Studies, The Netherlands	[O5.61] Potential impact of terrestrial nutrient input from a coastal peat land on the fluxes of climate relevant trace gases in shallow waters of the Baltic Sea M. Kreuzburg ^{*1} , M. Voss ¹ , G. Jurasinski ¹ , G. Rehder ¹ , ¹ Institute for Baltic Sea Research Warnemuende, Germany, ² Faculty of Environment and Agriculture Rostock, Germany
12:05-12:20	[O1.70] Optimising monitoring programmes: A case study L. García-García [*] , J. van der Molen, D. Sivyer, <i>Centre for Environment, Fisheries and Aquaculture Science (CEFAS), UK</i>	[O2.68] Delineating organic matter sources and the importance of allochthonous versus autochthonous contributions to carbon burial in tropical mangrove sediments S.M. Sappal ^{*1,2} , T. Jennerjahn ¹ , A. Ramanathan ² ¹ Leibniz Center for Tropical Marine Ecology, Germany, ² Jawaharlal Nehru University, India	[O3.62] Antagonistic interference of Crude Oil on Denitrification and Anammox, and its effect on N₂O production H. Ribeiro ^{*1} , A.P. Mucha ¹ , I. Azevedo ¹ , P. Salgado ¹ , C. Teixeira ¹ , C.M.R. Almeida ¹ , S.B. Joye ² , C. Magalhães ¹ ¹ CIIMAR - Interdisciplinary Centre of Marine and Environmental Research, Portugal, ² University of Georgia, USA	[O4.63] Quantifying and visualizing the skill of biogeochemistry models in reproducing satellite chlorophyll patterns with binary metrics: A validation technique study K. Baetens ^{*1} , S. Salon ² , G. Cossarini ² , H. Wehde ³ , S. Legrand ¹ , J. Maksymczuk ⁴ ¹ RBINS, Belgium, ² OGS, Italy, ³ IMRO, Norway, ⁴ Met Office, UK	[O5.62] Submarine groundwater discharge, Puck Bay, Poland E. Bubliewska ^{*1} , L. Leczynski ¹ , M. Marciniak ¹ , Z. Klostowska ¹ ¹ University of Gdansk, Poland, ² Adam Mickiewicz University in Poznan, Poland
12:20-12:35	[O1.71] New view of primary production dynamics from	[O2.69] Origin of sedimentary organic matter and its fate upon	[O3.63] Dissolved organic carbon stimulates coral-	[O4.64] Counting the conservation costs of bias in	[O5.63] Subterranean estuaries of Quintana Roo influencing

	<p>estuarine to coastal ecosystems by using high frequency measurements P. Claquin^{*1,2}, J. Morelle^{1,2}, M. Schapira³, F. Jacqueline³, P. Riou³, ¹University of Caen-Normandie, France, ²UMR BOREA CNRS MNHN, France, ³IFREMER, France</p>	<p>decomposition T.T. Nyein^{1,2}, V. Helfer¹, M. Zimmer^{*1} ¹Leibniz-Center for Tropical Marine Ecology, Germany, ²Ministry of Science and Technology, Myanmar</p>	<p>associated dinitrogen fixation: Implications for coral bleaching C. Pogoreutz^{*1,2}, N. Räderker^{2,3}, A. Cárdenas^{1,2}, A. Gärdes¹, C.R. Voolstra³, C. Wild^{1,2}, ¹Leibniz Center for Tropical Marine Ecology GmbH (ZMT), Germany, ²University of Bremen, Germany, ³King Abdullah University of Science and Technology (KAUST), Saudi Arabia</p>	<p>estuarine fish ecology using lessons learned from early life history stages in South Africa N. Strydom, Nelson Mandela Metropolitan University, South Africa</p>	<p>coastal condition of nearshore waters J.A. Herrera-Silveira[*], S.M. Morales-Ojeda, T.O. Cortes-Balan, J. Ramirez-Ramirez, I. Osorio-Moreno, N. Rubio-Cisneros CINVESTAV, Mexico</p>
12:35-12:50	<p>[O1.72] Novel trophic state indicators based on biofilm signatures monitored with surface wettability, confocal microscopy and photoacoustic spectroscopy techniques S.J. Pogorzelski[*], M. Grzegorzczak, A. Szczepanska-Pospiech, University of Gdansk, Poland</p>	<p>[O2.70] Partitioning the sources of ecosystem CO₂ efflux in the mangrove <i>Avicennia marina</i> X. Ouyang[*], S.Y. Lee, R.M. Connolly, Griffith University, Australia</p>	<p>[O3.64] Getting tanked up in preparation for climate change T.A. O'Meara[*], S.F. Thrush University of Auckland, New Zealand</p>		<p>[O5.64] Spatial variability in fish community and productivity around submarine groundwater seepages in coastal area J. Shoji^{*1}, R. Sugimoto², O. Tominaga², H. Honda³, S. Kobayashi⁴, ¹Hiroshima University, Japan, ²Fukui Prefectural University, Japan, ³Research Institute for Humanity and Nature, Japan, ⁴Kyoto University, Japan</p>
12:50-14:00	<p>Lunch Room: CCB Foyer</p>				
14:00-15:00	<p>Poster Session II Room: CCB Foyer</p>				
	<p>Room: Hanse Saal</p>				
15:00-17:30	<p>Plenary Session II Chair: Dr. Tim Jennerjahn, Leibniz Center for Tropical Marine Ecology, Bremen, Germany and Editor-in-Chief of Estuarine, Coastal and Shelf Science</p>				
15:00-15:30	<p>[KEY.05] How do biological and physical cohesion affect estuarine bedforms? Jaco H. Baas, Bangor University, UK</p>				
15:30-16:00	<p>[KEY.06] Effects of hypoxia on marine biodiversity Dr. Raquel Vaquer-Sunyer, University of the Balearic Islands, Spain</p>				
16:00-16:30	<p>[KEY.07] How to link ecosystem functioning to services provision to support sustainable policy and decision-making processes for coastal zones? Dr. Rute Pinto, MARE - Marine and Environmental Sciences Centre, Portugal</p>				

16:30-17:00	[KEY.08] Ocean Sampling Day(s): Monitoring the anthropogenic impact on the hidden majority in coastal marine ecosystems Prof. Dr. Frank Oliver Glöckner , <i>Max-Planck-Institute for Marine Microbiology, Bremen; Jacobs University, Bremen, Germany</i>
17:00-17:30	Awards and closing of symposium