



# NEW HORIZONS FOR BALTIC SEA SCIENCE

9<sup>th</sup> Baltic Sea Science Congress  
26-30 August, 2013 Klaipeda, Lithuania

## Congress Programme

<b>26 August, Monday</b>				
17:00-19:00 Registration and Welcome cocktail				
<b>27 August, Tuesday (Day 1)</b>				
09:00-09:20	<b>Registration +coffee</b>			
09:20-09:40				
09:40-10:00				
10:00-10:20	Opening of the conference			
10:20-10:40				
10:40-11:00	<b>Keynote speaker Frank Oliver Glöckner (Bioinformatics)</b>			
11:00-11:20				
11:20-11:40	<b>Keynote speaker Tarmo Soomere. <u>CHANGING WAVE CLIMATE IN THE BALTIC SEA BASIN</u></b>			
11:40-12:00				
12:00-13:20 Lunch break				
<b>13:20-15:00</b>	<b>Session (topic #16). Structural and functional responses of Baltic communities to anthropogenic interventions.</b>	<b>Session (topic #5). Coastal-offshore exchange processes.</b>	<b>Session (topic #12). Integrated science and management of agriculture, fishery, environment and Economy.</b>	
13:20-13:40	219. Elmira Boikova, Vita Licite, Uldis Botva and Vadims Vakarjuks. MESOSCALE DISTRIBUTION OF PICO AND NANOPLANKTON IN THE GULF OF RIGA	42. Svenja Bierstedt, Hans von Storch, Eduardo Zorita and Birgit Hünicke. HOW DO STATISTICS OF THE MEAN WIND CORRESPOND TO EXTREME WIND STATISTICS OVER THE BALTIC SEA?	92. H. Ahtiainen, H. Linus, J. Artell, M. Czajkowski, J. Meyerhoff, M. Alemu, D. Angeli, K. Dahlbo, V. Fleming-Lehtinen, B. Hasler, A. Huhtala, K. Hyytiäinen, A. Karloseva, Y. Khaleeva, M. Maar, L. Martinsen, T. Nömman, I. Oskolokaite, K. Pakalniete, D. Semeniene, J. Smart and T. Söderqvist. BENEFITS OF MEETING NUTRIENT REDUCTION TARGETS FOR THE BALTIC SEA – RESULTS FROM A CONTINGENT VALUATION STUDY IN THE NINE COASTAL STATES	
13:40-14:00	223. Evelina Griniene and Sigita Sulcius. ESTIMATES OF PHYTOPLANKTON MORTALITY	103. Irina Chubarenko, Elena Esiukova, Natalia Stepanova, Olga Lobchuk and Natalia Demchenko.	131. Hans Estrup Andersen, Anders Nielsen, Dennis Trolle, Gitte Blicher-Mathiesen, Hans Thodsen and	

	CAUSED BY PROTOZOAN GRAZING IN THE CURONIAN LAGOON	METHOD OF ESTIMATION OF SEA-SHELF WATER-EXCHANGE BASED ON INFORMATION ON DIFFERENTIAL HEATING/COOLING IN COASTAL ZONE	Shenglan Lu. MODELLING NUTRIENT LOADING OF DANISH MARINE WATERS	
14:00-14:20	41. Magdalena Jakubowska, Monika Normant, Jerzy Drzazgowski and Mateusz Jerzak. EFFECT OF THE CARBON DIOXIDE-INDUCED WATER ACIDIFICATION ON THE PHYSIOLOGY OF BALTIC BENTHIC INVERTEBRATES	84. Peter Holtermann, Hans Burchard, Ulf Gräwe, Knut Klingbeil and Lars Umlauf. STUDIES OF AN ENSEMBLE TRACER RELEASE IN THE GOTLAND BASIN USING A HIGH RESOLUTION NUMERICAL MODEL OF THE CENTRAL BALTIC SEA	230. Bo Gustafsson. SCIENTIFIC BASIS FOR REVISED BSAP NUTRIENT LOAD REDUCTION TARGETS	
14:20-14:40	29. Alexey Maximov, Tatjana Eremina, Eugenia Lange, Larisa Litvinchuk and Olga Maximova. ECOLOGICAL REGIME SHIFT IN THE EASTERN GULF OF FINLAND AFTER LARGE-SCALE MARENZELLERIA INVASION	15. Kai Myrberg, Andreas Lehmann and Katharina Höflich. A STATISTICAL APPROACH TO COASTAL UPWELLING IN THE BALTIC SEA BASED ON THE ANALYSIS OF SATELLITE DATA FOR 1990-2009	249. Tomasz Kowalkowski and Marianna Pastuszak. ESTIMATION OF PRESENT (1995-2008) AND PROJECTION OF FUTURE (2015 AND 2020) EMISSION OF NITROGEN AND PHOSPHORUS INTO THE POLISH RIVER BASINS	
14:40-15:00	136. Rasa Morkūnė, Julius Morkūnas, Mindaugas Dagys, Zita R. Gasiūnaitė, Jūratė Lesutienė, Linas Ložys, Kęstutis Arbačiauskas, Rūta Barisevičiūtė, Andrius Šiaulyš and Aleksej Šaškov. TRIPLE-ISOTOPE APPROACH TO IDENTIFY FOOD SOURCES OF WINTERING SEABIRDS IN THE COASTAL WATERS OF THE SE BALTIC SEA	118. Taavi Liblik, Jaan Laanemets, Urmas Raudsepp, Jüri Elken and Irina Suhhova. RAPID CHANGES IN THE WINTER NEAR-BOTTOM OXYGEN CONDITIONS IN THE GULF OF FINLAND DUE TO VARIATIONS OF ESTUARINE CIRCULATION	111. Marie Maar, Stiig Markager, Maren Lyngsgaard, Eva Friis Møller and Jørgen Windolf. THE IMPORTANCE OF LOCAL NUTRIENT LOADS FOR PRIMARY PRODUCTION IN THE BALTIC SEA TRANSITION ZONE	
15:00-15:20	Coffee break			
15:20-17:00	<b>Session (topic #16) (continue)</b>	<b>Session (topic #5) (continue)</b>	<b>Session (topic #12) (continue)</b>	
15:20-15:40	148. Ants Erm, Fred Buschmann, Ilja Maljutenko, Irina Suhhova, Natalja Kolesova, Martin Voll and Madis Listak. ALGAE BLOOMS ON A TALLINN CITY BEACH: A CASE STUDY	5. Rivo Uiboupin and Jaan Laanemets. Upwelling Related SST and Chl a Variability from REMOTE SENSING IMAGERY	193. Stiig Markager, Maren Moltke Lyngsgaard, J. Rasmus Nielsen and Katherine Richardson. EUTROPHICATION AND FISH PRODUCTION: A CHALLENGE FOR SCIENCE AND	

			MANAGEMENT IN COASTAL SYSTEMS	
15:40-16:00	14. Evgenia Balushkina. ASSESSMENT OF THE NEVA ESTUARY STATE FROM STRUCTURAL CHARACTERISTICS OF ZOOBENTHOS IN 1994—2011	47. Andreas Lehmann, Hans-Harald Hinrichsen, Klaus Getzlaff and Kai Myrberg. MODELLING THE EXTENT OF HYPOXIA AND ANOXIA IN THE BALTIC SEA FOR THE PERIOD 1970-2010	51. Kirsi Kostamo and Kai Myrberg. THE GULF OF FINLAND YEAR 2014 - 'CLEAN GULF OF FINLAND AHEAD OF TIME'	
16:00-16:20	204. Konstantin Podgornyy and Olga Dmitrieva. THE STATISTICAL ANALYSIS OF CORRELATIONS BETWEEN ELEMENTS OF THE ECOSYSTEM OF VISTULA LAGOON	125. Jan-Victor Björkqvist, Laura Tuomi, Heidi Pettersson, Kimmo Tikka, Carl Fortelius and Kimmo Kahma. HIGH RESOLUTION WAVE MODELLING IN THE COASTAL AREAS OF THE NORTHERN BALTIC SEA	72. Agnieszka Kijewska, Kęstas Plauška and Roman Wenne. CHARACTERISTIC OF BALTIC COD POPULATION ALONG THE LITHUANIAN COAST	
16:20-16:40	5. Sandra Kube, Christina Augustin, Sigrid Sagert and Lutz Postel. THE IMPACT OF THE NON-INDIGENOUS CTENOPHORE MNEMIOPSIS LEIDYI ON THE PELAGIC FOOD WEB OF THE SOUTH-WESTERN BALTIC SEA – A CASE STUDY FOR MSFD DESCRIPTOR 2	215. Urmas Lips, Inga Lips and Andres Trei. ROLE OF SUB-MESOSCALE PROCESSES IN NUTRIENTS AND PHYTOPLANKTON DYNAMICS	140. Sami Hautakangas and Markku Ollikainen. THE IMPACTS OF NUTRIENT POLICIES ON WATER COMPANIES SUPPLYING DRINKING WATER AND ABATING WASTE WATER	
16:40-17:00	266. Egidijus Bacevičius. STRUCTURAL AND FUNCTIONAL COMPONENTS OF THE LAMPREY AND FISH ASSAMBLAGE IN THE BALTIC SEA AND THE CURONIAN LAGOON (LITHUANIAN AND ADJACENT WATERS)	206. Irina Suhhova, Taavi Liblik, Urmas Lips and Juss Pavelson. TEMPORAL PATTERNS OF VERTICAL MIXING IN THE STRATIFIED GULF OF FINLAND	44. Stine Ross, J. Rasmus Nielsen, Niels Gerner Andersen and Henrik Gislason. HOW IMPORTANT IS WHITING IN THE WESTERN BALTIC ECOSYSTEM	
17:00-19:00	<b>Poster session 1</b>			
<b>28 August, Wednesday (Day 2)</b>				
09:00–09:20	<b>Keynote speaker Paul Bukaveckas</b> <a href="#">RESEARCH ON HARMFUL ALGAL BLOOMS TO MEET SCIENCE AND POLICY NEEDS</a>			
09:20–09:40				
09:40-10:00	Coffee-Break			
10:00-10:20				

10:20-12:00	<b>Session (topic #13). Interplay of physical, biological and geological and coastal processes.</b>	<b>Session (topic #10). Organic matter in sea water – origin, distribution, composition, properties and significance.</b>	<b>Session (topic #3). Dumped munitions in the Baltic Sea.</b>	
10:20-10:40	64. Victor Alari and Ingvar Lukas. A HIGH RESOLUTION (2 KM) 41 YEAR LONG WAVE HINDCAST STUDY FOR THE BALTIC SEA INCLUDING ICE AND DOWSCALED WINDS.	176. Therese Harvey, Agneta Andersson, Susanne Kratzer and Jakob Walve. DISTRIBUTIONS AND OPTICAL PROPERTIES OF COLOURED DISSOLVED ORGANIC MATTER (CDOM) AND DISSOLVED ORGANIC MATTER (DOC) IN COASTAL GRADIENTS OF THE BALTIC SEA	12. Jacek Bełdowski, Jacek Fabisiak, Stanisław Popiel, Rune Berglind, Paula Vanninen, Anu Lastumaki Lastumaki, Thomas Lang, Katja Broeg, Ulf Olsson, Galina Garnaga and Janina Barsienne. CHEMICAL MUNITIONS RISK ASESMENT – A COMPLEX APPROACH	
10:40-11:00	121. Maris Eelsalu and Tarmo Soomere. WAVE ENERGY POTENTIAL IN THE NORTH-EASTERN BALTIC SEA	38. Karol Kulinski, Bernd Schneider, Karoline Hammer, Ulrike Machulik and Detlef Schulz-Bull. THE INFLUENCE OF THE DISSOLVED ORGANIC MATTER (DOM) ON THE ACID-BASE SYSTEM OF THE BALTIC SEA	166. R. Turja, M. Brenner, . Butrimaviciene, J. Baršiene, A. Lastumäki and K. Lehtonen. INTEGRATED ASSESSMENT OF BIOLOGICAL EFFECTS OF CHEMICAL WARFARE AGENTS ON CAGED BLUE MUSSELS AT OFFICIAL DUMPING SITE IN THE BALTIC SEA	
11:00-11:20	261. Anda Ikauniece, Māris Skudra, Līna Livdāne and Madara Alberte. TEMPORAL ANOXIA AT THE VERY SHALLOW COASTAL ZONE – GOOD, BAD OR DOESN'T MATTER	259. Beata Szymczycha and Janusz Pempkowiak. SUBMARINE GROUNDWATER DISCHARGE AS A SOURCE OF DISSOLVED	173. Thomas Lang, Nicolai Fricke, Katja Broeg, Matthias Brenner, Kari Lehtonen, Raisa Turja and Janina Barsiene. HEALTH STATUS OF COD (GADUS MORHUA) AT DUMPSITES FOR CHEMICAL WARFARE AGENTS IN THE BALTIC SEA	
11:20-11:40	165. Hilikka Pellikka, Jenni Rauhala, Kimmo Kahma, Hanna Boman, Juha Aalto and Hilppa Gregow. METEOTSUNAMIS IN THE BALTIC SEA AND THEIR OCCURRENCE ON THE FINNISH COAST	198. Irma Puttonen, Tuula Kohonen, Kaarina Lukkari, Mikael Malmaeus, Magnus Karlsson, Emil Rydin, Aarno Kotilainen, Per Jonsson and Johanna Mattila. VAST POTENTIAL FOR PHOSPHORUS RELEASE FROM THE SEDIMENTS IN THE BALTIC SEA SHALLOW ARCHIPELAGOS	205. Jaromir Jakacki, Anna Przyborska and Szymon Kosecki. MODELING BOTTOM CURRENTS AT CHEMICAL WEAPON DUMPSITE AREAS	
11:40-12:00	69. Ira Didenkulova and Artem Rodin.	2. Anders Omstedt. MODELLING	235. Ulf Olsson, Zygmunt Klusek and	

	PECULIARITIES OF THE SHIP WAKE STRUCTURE	THE CO2-O2 MARINE SYSTEM IN THE BALTIC SEA	Jacek Beldowski. ANTHROPOGENIC IMPACT IDENTIFICATION IN THE GOTLAND DEEP (C-AREA) USING SIDESCAN SONAR IMAGES PROCESSING	
12:00-12:20	153. Adolf Konrad Stips and Madis - Jaak Lilover. HOW TO DETECT REGIME SHIFTS AND THEIR CAUSES IN THE BALTIC SEA AREA?	39. Yulia Gubelit. INFLUENCE OF CLIMATIC FACTORS ON MACROALGAL COMMUNITY IN THE EASTERN PART OF THE GULF OF FINLAND	258. Paula Vanninen, Martin Söderström, Yvonne Nygren, Anders Östin, Stanisław Popiel, Jakub Nawała, Marta Szubska, Jacek Beldowski and Galina Garnaga. ANALYSIS OF CHEMICAL WARFARE AGENT RELATED CHEMICALS IN BALTIC SEA SAMPLES TAKEN WITHIN THE CHEMSEA PROJECT	
12:20-12:40	282. G. Umgiesser, P. Zemlys, C. Ferrarin, S. Gulbinskas and D. Bellafiore. INVESTIGATION OF SALINE WATER INTRUSIONS INTO THE CURONIAN LAGOON (LITHUANIA) AND TWO-LAYER FLOW IN THE KLAIPĖDA STRAIT USING FINITE ELEMENT HYDRODYNAMIC MODEL		120. Janina Baršienė, Laura Butrimavičienė, Włodzimierz Grygiel, Aleksandras Michailovas, Jacek Beldowski and Tomas Jackūnas. GENO-CYTOTOXICITY LEVELS IN FISH FROM CHEMICAL MUNITIONS DUMPSITES (BALTIC SEA)	
12:40-13:00	Lunch break			
13:00-13:20				
13:20-13:40				
13:40-15:40	<b>Session (topic #13) (continue)</b>	<b>Session (topic #10) (continue)</b>	<b>Session (topic #17). Poorly known, unrecognised, or overlooked: elusive Baltic biodiversity components in the water column and bottom sediments.</b>	<b>Workshop on Large data analysis in marine science: new possibilities through visual analytics.</b>
13:40-14:00	128. Tomas Torsvik, Tarmo Soomere, Jaan Kalda and Bert Viikmäe. IMPROVING THE FORECAST OF COASTAL POLLUTION USING SURFACE DRIFTER TRAJECTORIES	76. Günther Nausch, Monika Nausch, Pia Steinrücken, Jana Balke and Norbert Wasmund. PHOSPHORUS POOL VARIATIONS IN THE CENTRAL BALTIC SEA IN JULY 2012	265. Irena Telesh and Sergei Skarlato. SEARCH FOR MECHANISMS BEHIND THE MICROBIAL SPECIES MAXIMUM IN THE BALTIC SEA	Keynote speaker Thorsten May (Fraunhofer IGD, Germany). CHALLENGE BIG DATA IN MARINE SCIENCES: HOW CAN VISUAL ANALYTICS HELP?

14:00-14:20	90. Laura Tuomi, Kai Myrberg, Andreas Lehmann and Heidi Pettersson. EVALUATING OF THE ROLE OF THE LANGMUIR CIRCULATION IN THE MODELLING OF THE VERTICAL MIXING IN THE GULF OF FINLAND	254. Emelyan Emelyanov. BIOGENIC OPAL, PHOSPHORUS, ORGANIC CARBON, NITROGEN AND CORBONATES IN THE BOTTOM SEDIMENTS OF THE BALTIC SEA	183. Teresa Radziejewska, Brygida Wawrzyniak-Wydrowska and Anna Skrzypacz. NON-CALCAREOUS FORAMINIFERS (RHIZARIA, FORAMINIFERA) IN THE NEAR-SHORE SEDIMENT OF THE POMERANIAN BAY (SOUTHERN BALTIC): AN ELUSIVE BALTIC BENTHIC BIODIVERSITY COMPONENT	
14:20-14:40	107. Ulrike Löptien and Heiner Dietze. CONSTRAINING PARAMETERS IN STATE-OF-THE-ART MARINE PELAGIC ECOSYSTEM MODELS. IS IT ACTUALLY FEASIBLE?	236. Anna Maciejewska and Janusz Pempkowiak. DOC AND POC IN THE SOUTHERN BALTIC-EVALUATION OF FACTORS INFLUENCING SOURCES, DISTRIBUTION AND DYNAMICS OF ORGANIC MATTER.	114. Monika Orchowska, Piotr Kuklinski and Katarzyna Grzelak. LARGE SCALE DISTRIBUTION PATTERN OF THE SHALLOW BALTIC SEA ROCK ENCRUSTING COMMUNITIES IN RELATION TO SALINITY GRADIENT	N. N. SPATIO-TEMPORAL DATA PLATFORM FOR THE OCEAN
14:40-15:00	162. Andrea Giudici and Tarmo Soomere. IN SEARCH FOR THE AREAS OF NATURAL PATCH GENERATION IN THE GULF OF FINLAND	253. Adam Źak and Alicja Kosakowska. BIOACTIVE ORGANIC COMPOUNDS PRODUCED BY MICROALGAE AND CYANOBACTERIA	257. Emilia Jankowska and Maria Włodarska -Kowalczuk. SEAGRASS MEADOWS IN THE SOUTHERN BALTIC SEA - SEASONALITY AND ECOSYSTEM ENGINEERING.	Ralf Prien. COMMON DATA ANALYSIS AND VISUALISATION APPROACHES IN MARINE SCIENCE TODAY
15:00-15:20	244. Edvardas Valaitis, Saulius Gulbinskas and Loreta Kelpsaite. SAND REDISTRIBUTION PATTERNS AFTER REPLENISHMENT, PALANGA BEACH (SE BALTIC SEA) CASE		275. Sergej Olenin and Aleksas Narščius. BIOGEOGRAPHY OF BALTIC NEOBIOTA AT PAN-EUROPEAN AND REGIONAL SCALES	Leontina Sukhacheva, Marina Orlova, Daria Ryabchuk. TOWARD ECOSYSTEM-BASED MANAGEMENT THROUGH INTEGRATED APPROACH AND LARGE DATA ANALYSES (A CASE OF TOPCONS PROJECT)
15:20-15:40	234. Mikhail Golubkov and Sergei Golubkov. PRIMARY PRODUCTION AND CHLOROPHYLL A CONCENTRATION IN MIXING ZONE OF THE NEVA ESTUARY	260. Angela Vogts and Maren Voss. INTRODUCTION TO NANOSIMS: ELUCIDATING THE ELEMENTAL AND ISOTOPIC COMPOSITION ON THE MICROSCALE		Philipp Groetsch, Stefan Simis, Marieke Eleveld, Steef Peters. DETECTION OF CYANOBACTERIAL BLOOMS WITH WAVELET ANALYSIS OF SHIPS-OF- OPPORTUNITY FLUORESCENCE MEASUREMENTS
15:40-16:00	70. Ira Didenkulova and Artem Rodin.			Thomas Ruth. SMART DATA



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26-30 August, 2013 Klaipeda, Lithuania

	PROPERTIES OF SHALLOW WATER ROGUE WAVES IN THE BALTIC SEA		VISUALIZATION FOR NEAR REAL-TIME MONITORING OF MARINE SENSOR DATA
16:00-16:20	Coffee break		
16:20-18:00	Poster session 2		Workshop on Large data analysis in marine science: new possibilities through visual analytics (continue).
16:00-16:20			Discussion - Current challenges and needs in marine sciences - possible solutions to overcome
16:20-16:40			
16:40-17:00			
17:00-17:20			
17:20-17:40			
17:40-18:00			
19:00	Conference diner		
29 August, Thursday (Day 3)			
09:00-09:20	Keynote speaker IlyaBuynevich. WRITTEN IN SAND: CURONIAN DUNES AS GEOLOGICAL ARCHIVES OF A DYNAMIC LANDSCAPE		
09:20-09:40			
09:40-10:00	Coffee-Break		
10:00-10:20			
10:20-12:00	<b>Session (topic #18). Geology of the Baltic Sea bottom, underwater landscapes and palaeogeographic reconstructions.</b>	<b>Session (topic #19). Remote sensing of the Baltic Sea.</b>	<b>Session (topic #11). Baltic Sea ice</b>
10:20-10:40	218. Hanna Raig and Alar Rosentau. STONE AGE SETTLEMENT AND POSTGLACIAL DEVELOPMENT OF THE BALTIC SEA IN THE TÕRVAJÕE AREA, NE ESTONIA	188. Susanne Kratzer, Therese Harvey, Krista Alikas and Petra Philipson. REMOTE SENSING AND BIO-OPTICAL PROPERTIES OF THE NW BALTIC SEA- FROM RESEARCH TO APPLICATIONS	28. Madis-Jaak Lilover, Juss Pavelson and Tarmo Kõuts. WIND, CURRENTS AND ICE DYNAMICS IN THE CENTRAL GULF OF FINLAND
10:40-11:00	269. Vadim Sivkov, Dmitry Dorokhov and Evgenia Dorokhova. REGIONAL MARINE LANDSCAPE MAP FOR THE RUSSIAN PART OF THE SE BALTIC SEA	185. Lena Kritten, Jürgen Fischer, Rene Preusker and Carsten Brockmann. RETRIEVAL OF INHERENT OPTICAL PROPERTIES IN BALTIC SEA WATERS FROM MERIS OBSERVATIONS THROUGH INVERSION OF RADIATIVE TRANSFER	89. Ulrike Löptien, Sebastian Mårtensson, Markus Meier and Anders Höglund. LONG TERM CHARACTERISTICS OF SIMULATED ICE DEFORMATION IN THE BALTIC SEA (1962-2007)

		SIMULATIONS		
11:00-11:20	8. Ilya Buynevich, Michael Savarese, H. Allen Curran, Albertas Bitinas, Bosiljka Glumac and Donatas Pupienis. GEORADAR SIGNATURES OF AEOLIAN INCURSION INTO TEMPERATE (NERINGA, LITHUANIA) AND TROPICAL (EXUMA, BAHAMAS) MARITIME FORESTS	190. Philipp Groetsch, Stefan Simis, Marieke Eleveld and Steef Peters. WAVELET COHERENCE BETWEEN IN SITU FLUORESCENCE MEASUREMENTS AS AN INDICATOR FOR VALIDATION SUITABILITY WITH REMOTELY SENSED CHLOROPHYLL-A CONCENTRATIONS	4. Matti Leppäranta. ENVIRONMENTAL IMPACTS OF LAND-ICE INTERACTION IN THE NORTHERN BALTIC SEA	
11:20-11:40	61. Michael Endler, Bernd Bobertz, Jørn Bo Jensen and Matthias Moros. ACOUSTIC AND RELATED PROPERTIES OF WESTERN BALTIC SEA FLOOR SEDIMENTS	68. Valentina Bobykina, Konstantine Karmanov and Boris Chubarenko. COMPARATIVE CHARACTERISTICS OF THE STUDY OF THE DYNAMICS SEA SHORE BY MONITORING DATA AND REMOTE SENSING DATA	138. Ants Erm, Fred Buschmann and Matti Leppäranta. EXAMINATION OF ICE AND ITS MELTWATER	
11:40-12:00	63. Vladimir Zhamoida, Darya Ryabchuk, Alexey Amantov, Andrey Grigoriev, Nikolay Pimenov, Mikhail Spiridonov, Yury Kropachev and Igor Neevin. POCKMARKS OF THE EASTERN GULF OF FINLAND – GEOLOGY, MORPHOLOGY, HYPOTHESIS OF GENESIS	240. Diana Vaiciute, Mariano Bresciani, Erica Matta and Federica Braga. VARIABILITY OF BIO-OPTICAL PARAMETERS OF THE SE BALTIC SEA COASTAL WATERS BASED ON IN SITU AND SATELLITE DATA	13. Juha Karvonen. ANALYSIS OF SEA ICE COASTAL RADAR IMAGES	
12:00-12:20	20. Albertas Bitinas, Jonas Mažeika, Aldona Damušytė, Ilya Buynevich, Anatoly Molodkov and Alma Grigienė. EFFECTS OF CARBONATES ON RADIOCARBON DATING IN THE SOUTHEASTERN BALTIC LAGOONS	167. Igor Kozlov, Inga Dailidienė, Toma Mingelaitė and Bertrand Chapron. SPACE-DERIVED PARAMETERS OF COASTAL UPWELLING IN THE SE BALTIC	130. Laura Tuomi. WAVE FORECASTING IN THE SEASONALLY ICE-COVERED BALTIC SEA	
12:20-12:40		179. Selima Ben Mustapha, Susanne Kratzer, Annelies Hommersom and Niklas Strömbeck. BIO-OPTICAL MEASUREMENTS FOR		





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		SATELLITE VALIDATION IN LAKE VÄNERN, SWEDEN	
12:40-13:00	Lunch break		
13:00-13:20			
13:20-13:40			
<b>13:40-15:40</b>	Poster session 3		<b>Workshop on the Baltic Sea Basin during the last glacial cycle – an Integrated Ocean Drilling Program (IODP) initiative.</b>
13:40-14:00			151. Thomas Andrén and Bo Barker Jørgensen. IODP EXPEDITION 347 - BALTIC SEA PALEOENVIRONMENT
14:00-14:20			225. Jan Harff, Rudolf Endler, Andreas Groh, Sergey Kotov, Ricardo Olea, Alar Rosentau and Szymon Uscinowicz. LATE QUATERNARY BALTIC SEA BASIN FORMATION
14:20-14:40			80. Robert Kostecki and Beata Janczak-Kostecka. EVOLUTION OF THE LITTORINA TRANSGRESSION REFLECTED BY GEOCHEMISTRY, DIATOMS AND RADIOCARBON DATING OF THE SEDIMENT CORES FROM THE SOUTH-WESTERN BALTIC SEA
14:40-15:00			212. Elinor Andrén, Thomas Andrén and Björn Nilsson. PALEOENVIRONMENTAL RECONSTRUCTION OF THE YOLDIA SEA STAGE IN THE SOUTHERN BALTIC SEA
15:00-15:20			
15:20-15:40			
15:40-16:00	Coffee break		
16:00-16:20	<b>Keynote lecture. Science meets society</b> (BONUS-sponsored lecture on public engagement (given by a representative of DG Research communication team))		
16:20-16:40			

16:40-19:40	<b>BSG Business meeting</b>	<b>BMB meeting</b>	<b>CBO meeting</b>	<b>Young scientists' course "An engaging researcher"</b>
19:40				<b>Young scientists club</b>
<b>30 August, Friday (Day 4)</b>				
09:00-09:20	<b>Keynote speaker Daniel Conley. Is geoengineering an acceptable solution for Baltic Sea eutrophication?</b>			
09:20-09:40				
09:40-10:20	Coffee-Break			
10:00-10:20	Coffee-Break			
<b>10:20-12:00</b>	<b>Session (topic #15). Baltic lagoons: from science to management.</b>	<b>Session (topic #9). Climate of Baltic Sea in 21 century, effects from microscales to regional patterns.</b>	<b>Session (topic #4). Operational oceanography in the Baltic Sea – combining in-situ observations, remote sensing and numerical modelling.</b>	<b>Workshop on Regional differences in optical properties of the Baltic Sea (<a href="#">NordBaltRemS</a>)</b>
10:20-10:40	22. Gerald Schernewski. WATER QUALITY MANAGEMENT IN COASTAL LAGOONS: FUTURE CHALLENGES	46. Nadezhda Berezina. DYNAMICS AND CHANGES IN COASTAL ECOSYSTEM OF THE NORTH-EASTERN BALTIC SUBJECTED TO EUTROPHICATION AND CLIMATE CHANGES	85. Ulf Gräwe, Peter Holtermann, Hans Burchard and Knut Klingbeil. ADVANTAGES OF VERTICALLY ADAPTIVE COORDINATES IN NUMERICAL MODELS OF STRATIFIED SHELF SEAS	
10:40-11:00	278. A. Razinkovas-Baziukas, M. Žilius, R. Pilkaitytė, J. Petkuvienė, M. Bartoli, R. De Wit, I. Lubiene and T. Ruginis. EUTROPHICATION IN BALTIC TRANSITIONAL WATERS: ROLE OF SEASONALITY AND INTERNAL LOADINGS	65. Rene Friedland, Thomas Neumann and Gerald Schernewski. NEW SIMULATIONS OF EUTROPHICATION SCENARIOS USING AN IMPROVED VERSION OF ERGOM	232. Frank Janssen, Inga Golbeck and Xin Li. UNCERTAINTY ESTIMATION IN OPERATIONAL PRODUCTS – A MULTI-MODEL-ENSEMBLE FOR THE BALTIC AND THE NORTH SEA	
11:00-11:20	233. Sergei Golubkov, Nadezhda Berezina, Aleksey Maximov and Mikhail Golubkov. THE ROLE OF ZOOBENHOS IN PHOSPHORUS CYCLING IN TRANSIT SHALLOW WATERS IN THE EASTERN GULF OF FINLAND	134. Irina Nikolkina, Tarmo Soomere, Ralf Weisse, Nikolaus Groll and Beate Geyer. SIMULATED STATISTICS OF EXTREME WAVE EVENTS IN THE BALTIC SEA	127. Gennadi Lessin and Adolf Stips. OXYGEN IN THE GULF OF FINLAND AND THE ROLE OF MAJOR BALTIC INFLOWS: A MODELLING EXPERIMENT	
11:20-11:40	184. Teresa Radziejewska, Alicja Kosakowska, Maria Lotocka, Anna	96. Mikhail Molchanov, Vladimir Ryabchenko, Tatjana Eremina, Oleg	129. Petra Roiha, Laura Tuomi, Antti Westerlund, Simo Siiriä, Hanna	

	HISTORICAL ASPECTS OF EUTROPHICATION IN A SOUTHERN BALTIC COASTAL LAGOON AS ELUCIDATED BY SEDIMENT PIGMENT ANALYSIS AND DIATOM RECORD	POSSIBLE CHANGES IN THE BALTIC SEA ECOSYSTEM UNDER DIFFERENT CLIMATE PROJECTIONS	PERFORMANCE OF 2D AND 3D HYDRODYNAMICAL MODELS IN FORECASTING OF THE SEA LEVEL VARIATIONS IN THE NORTHERN BALTIC SEA	
11:40-12:00	231. Adam Wozniczka, Norbert Wolnomiejski, Marianna Pastuszak and Aneta Jakubowska. ECOSYSTEM RESPONSE TO REDUCED ANTHROPOGENIC PRESSURE – CASE STUDIES IN THE SZCZECIN LAGOON (SOUTH-WESTERN BALTIC SEA)	178. Hans von Storch and Marcus Reckermann. THE BACC EFFORT	239. Leonid Lopatoukhin, Alexander Boukhanovsky and Ekaterina Chernysheva. WAVE CLIMATE OVER NORD STREAM	
12:00-12:20	161. Emma Undeman and Bo Gustafsson. A Novel TOOL FOR MANAGEMENT OF ORGANIC POLLUTANTS IN THE BALTIC SEA	199. Christina B. Augustin, Sandra Kube and Josephine Goldstein. INVESTIGATIONS ON THE SETTLEMENT OF SCYPHOZOAN POLYPS IN THE BALTIC SEA	247. Dmitry Kurennoy and Boris Chubarenko. COMPARISON OF MODELED WIND WAVE PROPERTIES IN VISTULA LAGOON AND NEVA BAY, BALTIC SEA	
12:20-12:40	157. Marina Ulyanova, Timur Kanapatskiy and Nikolay Pimenov. RESULTS OF METHANE STUDY IN THE SEDIMENTS OF VISTULA AND CURONIAN LAGOONS	37. Maria Karlberg, Melissa Chierici, Malin Mohlin, Malin Olofsson, Lasse Riemann, Franciska Steinhoff, Nina Sunesson, Anders Torstensson and Angela Wulff. CLIMATE CHANGE - GOOD NEWS FOR FILAMENTOUS CYANOBACTERIA?	40. Andreas Lehmann, Evgenia Gurova and Andrei Ivanov. UPWELLING DYNAMICS IN THE BALTIC SEA STUDIED BY A COMBINED SAR/INFRARED SATELLITE DATA AND CIRCULATION MODEL ANALYSIS	
12:40-13:00		56. Leszek Kuchar. SIMULATION OF DAILY RAINFALL WITH WEATHER GENERATOR FOR VARIOUS APPLICATION IN ENVIRONMENTAL SCIENCES		
13:00-13:20	Lunch break			
13:20-13:40				
13:40-15:40	<b>Session (topic #15) (continue)</b> <b>Session (topic #14). Comparisons between the Baltic Sea and the Mediterranean.</b>	<b>Session (topic #7). Geological and biological habitat mapping in the Baltic Sea – linking geo-and biodiversity.</b>	<b>Session (topic #8). Descriptors, categories and indicators–research for MSFD.</b>	

13:40-14:00	264. A. Leruste, V. Ouisse, M. Žilius, B. Bec, A. Fiandrino, N. Malet, S. Le Noc, R. Pilkaitytė, A. Razinkovas-Baziukas and R. De Wit. IMPACT OF NUTRIENT REDUCTION ON PHYTOPLANKTON AND BENTHIC METABOLISM IN COASTAL LAGOONS; A FIRST COMPARISON BETWEEN MEDITERRANEAN AND BALTIC LAGOONS	24. Mayya Gogina, Alexander Darr, Kerstin Schiele and Michael L. Zettler. MATCHING THE BENTHIC BIODIVERSITY AND HABITAT SUITABILITY TO SEDIMENT PROPERTIES. FIRST RESULTS FOR MODELING AND MAPPING	192. Kari Kallio, Jenni Attila, Hanna Alasalmi, Antti Lindfors, Pirkko Kauppila, Sampsa Koponen, Timo Pyhälähti and Emil Vahtera. TEMPORALLY AND SPATIALLY INTENSIVE DATA IN THE ESTIMATION OF THE STATUS OF HELSINKI SEA AREA	
14:00-14:20	245. M. Žilius, M. Bartoli, T. Ruginis, J. Petkuvienė, I. Lubienė and A. Razinkovas-Baziukas. EFFECT OF SIMULATED DEPOSITION OF THE LABILE CYANOBACTERIA ON BENTHIC METABOLISM AND NUTRIENT EXCHANGE	35. Jørn Bo Jensen and Ziad Al-Hamdani. SHALLOW WATER HABITAT MAPPING IN THE DANISH WATERS, THE DOWNSCALING CONCEPT	21. Gerald Schernewski. CHALLENGES OF AND MODEL SIMULATIONS ON EU MARINE AND COASTAL POLICY IMPLEMENTATION: EUTROPHICATION	
14:20-14:40	82. Joachim Kuss. ANALYSIS OF MARINE MERCURY EVASION FROM THE BALTIC SEA AND COMPARISON WITH THE EMISSIONS OF THE MEDITERRANEAN SEA	146. A. Kotilainen, A. Kaskela, F. Hering, K. Kostamo, M. Ronkainen and M. Karjalainen. INFORMATION ON SEABED GEOLOGY AND BIOLOGY – A SOLID BASE FOR MARINE SPATIAL PLANNING: THE GULF OF FINLAND CASE	60. K. Schiele, A. Darr and M. Zettler. VERIFYING A BIOTOPE CLASSIFICATION USING BENTHIC COMMUNITIES – AN ANALYSIS TOWARDS THE IMPLEMENTATION OF THE MARINE STRATEGY FRAMEWORK DIRECTIVE	
14:40-15:00	220. Jacek Lenzion, Beata Kowalska and Elzbieta Zawadzka. THE APPROACH TO NATURAL RISKS ANALYSIS AND MANAGEMENT IN 2 COASTAL AREAS OF BALTIC AND MEDITERRANEAN SEA	113. D. Ryabchuk, V. Zhamoida, M. Orlova, I. Neevin and N. Kovalchuk. SPATIAL VARIATION OF ABIOTIC COMPONENTS OF MARINE LANDSCAPES AND MACROZOOBENTHOS IN COASTAL ZONE OF THE NORTHERN PART OF THE EASTERN GULF OF FINLAND	246. Martynas Bučas. WATER QUALITY ASSESSMENT IN THE SE BALTIC SEA USING RED MACROALGA FURCELLARIA LUMBRICALIS MAXIMUM DEPTH LIMIT	
<b>15:00-15:30</b>	Conference closing			



**Poster session 1. 27 August, Tuesday (Day 1)**

<b>Number of submission in Easy chair. Authors. Title</b>
11. Andrey Sharov, Sergey Kholodkevich and Anton Kurakin. APPLICATION OF BIVALVE MOLLUSKS PHYSIOLOGICAL RESPONSE IN BIOINDICATION OF WATER QUALITY
17. Jan Scholten, Anna Eisenach, Mai Kanhg Pham, Kay Knoeller, John Rapaglia, Michael Schlüter, Michael Schubert and Athanasios Vafeidis. SUBMARINE GROUNDWATER DISCHARGE IN THE SOUTHWESTERN BALTIC SEA
31. Vladimir Melentyev, Konstantin Melentyev, Lasse Pettersson and Tatiana Zakharova. SATELLITE SAR TRASSOLOGY AS THE PART OF SATELLITE CRIMINOLOGY: RUSSIAN EXPERIENCE OF THE DETECTION, IDENTIFICATION AND CLASSIFICATION OF THE TRACES ABANDONED BY MOVABLE ABOVE-WATER SHIPS
32. Magdalena Jakubowska, Monika Normant and Dagmara Wójcik. BEHAVIOR AND PHYSIOLOGY OF THE AMPHIPOD GAMMARUS OCEANICUS DURING SHORT- AND LONG-TERM EXPOSURE TO CARBON DIOXIDE-DRIVEN WATER ACIDIFICATION
55. Dmitry Sendek and Alexander Korolev. AMATEUR FISHING OF SMELT IN THE GULF OF FINLAND AS A FACTOR FOR THE REDUCTION OF ITS POPULATION STOCK
67. Natalia Stepanova. SEA-SHELF WATER EXCHANGE, DEDUCED FROM CHANGES IN INTEGRAL HEAT CONTENT: LABORATORY EXPERIMENTS
83. Karoline Hammer, Karol Kulinski, Bernd Schneider and Detlef E. Schulz-Bull. PRECISION AND ACCURACY OF SPECTROPHOTOMETRIC PH MEASUREMENTS AT ENVIRONMENTAL CONDITIONS IN THE BALTIC SEA
86. Laura Raag, Rivo Uiboupin and Liis Sipelgas. CHARACTERIZATION OF SEA ICE COVER EXTENT FROM MODIS IMAGERY IN THE GULF OF RIGA
87. Dagmara Wójcik and Monika Normant. FIRST EVIDENCE OF ERIOCHEIR SINENSIS EGG-CARRYING FEMALES FROM THE SOUTHERN BALTIC SEA
88. Dagmara Wójcik, Olga Rutkowska, Magdalena Jakubowska and Monika Normant. FEEDING ECOLOGY OF CHINESE MITTEN CRAB ERIOCHEIR SINENSIS IN VISTULA LAGOON (SOUTHERN BALTIC SEA)
93. Anna Semenova. ZOOPLANKTON OF THE CURONIAN AND THE VISTULA LAGOONS AS INDICATOR OF THEIR ECOLOGICAL STATE
95. Mariya Golenko and Nikolay Golenko. THE STRUCTURES OF THE GEOSTROPHIC AND CROSS-GEOSTROPHIC CURRENTS IN THE WESTERN AND CENTRAL BALTIC UNDER THE WEST AND NORTH-EAST WINDS
97. Ioanna Merkouriadi and Matti Leppäranta. LONG-TERM ANALYSIS OF HYDROGRAPHY AND SEA-ICE DATA IN TVÄRMINNE, GULF OF FINLAND
98. Stanislav Martyanov and Vladimir Ryabchenko. SIMULATION OF THE RESUSPENSION AND TRANSPORT OF BOTTOM SEDIMENTS IN THE NEVA BAY ON THE BASIS OF THREE-DIMENSIONAL CIRCULATION MODEL
99. Daniel Depellegrin, Nerijus Blazauskas and Lukas Egarter-Vigl. A LAND – SEA VISIBILITY ASSESSMENT FRAMEWORK FOR COASTAL AREAS
106. Igor Isachenko. NUMERICAL SIMULATION OF SIMULTANEOUS COLLAPSE OF TWO IDENTICAL MIXED REGIONS IN TWO-LAYER FLUID
108. Stanislaw Pogorzelski and Aneta Szczepanska. ONLINE BIOFILM MONITORING IN THE BALTIC SEA BRACKISH WATER WITH CONTACT ANGLE WETTABILITY AND PHOTOACOUSTIC SPECTROSCOPY TECHNIQUES
110. Daria Ryabchuk, Vladimir Zhamoida, Alexander Sergeev, Nikolay Filippov, Olga Tomilina, Igor Leont'ev and Dmitry Frank-Kamenetsky. GEOLOGICAL AND ENVIRONMENTAL RISKS FOR THE COASTAL ZONE OF THE EASTERN GULF OF FINLAND –THE FIRST RESULTS OF CLIPLIVE PROJECT
115. Elena Esiukova. APPLICATION OF SST REMOTE SENSING DATA FOR INVESTIGATION OF AUTUMNAL DIFFERENTIAL COASTAL COOLING IN SOUTH-

EASTERN BALTIC SEA
116. Elena Esiukova and Irina Chubarenko. CHARACTERISTICS OF SEASONAL DIFFERENTIAL COOLING ABOVE COASTAL SLOPES OF SOUTH-EASTERN BALTIC AS DEDUCED FROM MODIS SST MAPS (AUTUMNS OF 2002-2009)
122. Hans-Harald Hinrichsen, Christina Augustin, Sandra Kube and Holger Janßen. IMPACT OF SECONDARY HARD SUBSTRATE ON THE DISTRIBUTION AND ABUNDANCE OF AURELIA AURITA IN THE WESTERN BALTIC SEA
126. Anu Vaalama, Kaarina Lukkari and Henry Vallius. PHOSPHATE SORPTION ABILITY OF SURFACE SEDIMENTS IN THE NORTHERN COAST OF THE GULF OF FINLAND
135. Elvita Eglīte, Aigars Lavrinovičs, Bärbel Müller-Karulis and Juris Aigars. BIOGEOCHEMICAL MODEL RESPONSE TO DIP AND DIN VERTICAL WATER COLUMN PROFILES AND FLUXES IN THE SEDIMENT-WATER INTERFACE OF THE GULF OF RIGA, BALTIC SEA
147. Magdalena Beldowska, Agnieszka Jędruch, Justyna Kobos, Stella Mudrak-Cegiołka, Jacek Bełdowski, Marta Szubska, Anita Lewandowska and Lucyna Falkowska. MERCURY CONCENTRATIONS IN PHYTOPLANKTON AND ZOOPLANKTON IN THE COASTAL ZONE OF GULF OF GDAŃSK, THROUGH THE YEAR
149. Agnieszka Jędruch, Magdalena Beldowska, Jacek Bełdowski, Aleksandra Zgrundo, Marcelina Ziółkowska, Marta Szubska, Bożena Graca, Katarzyna Jankowska, Ewa Kotlarska and Joanna Kielczewska. VARIABILITY OF MERCURY CONCENTRATIONS IN SEDIMENTS AND OF THE COASTAL ZONE OF PUCK BAY (SOUTHERN BALTIC SEA), THROUGH THE YEAR
152. Marzenna Sztobryn. INDICES OF SEA ICE CONDITIONS – BALTIC SEA
154. Ieva Putna, Maija Balode, Māra Pfeifere and Ingrīda Puriņa. BIOLOGICALLY TREATED WASTE WATER TOXICITY EVALUATION FROM LATVIAN WWTP BY USING WEA APPROACH
177. Sergej Suzdalev and Saulius Gulbinskas. IMPACT OF SOIL DISPOSAL ACTIVITIES ON CHANGES IN LITHOLOGICAL AND CHEMICAL COMPOSITION OF SEA BOTTOM SEDIMENTS (LITHUANIAN CASE STUDY)
180. Zhanna Stont, Elena Bulycheva and Tatiana Bukanova. ICE CONDITIONS IN THE SOUTH-EASTERN BALTIC BY SATELLITE DATA AND FIELD OBSERVATIONS IN 2006-2013
186. Jana Wegbrod, Christina Augustin and Ulrich Bathmann. Nearshore or offshore?! WHAT MAKES THE DIFFERENCE FOR ZOOPLANKTON COMMUNITIES?
187. Olga Lobchuk and Irina Chubarenko. STRUCTURE VARIABILITY ALONG THE MAIN SW-NE SEA AXIS OF WATER PROPERTIES WITHIN THE COLD INTERMEDIATE LAYER OF THE BALTIC SEA AS DERIVED FROM DATA OF SCIENTIFIC CRUISES IN APRIL-MAY 2006
197. Ilze Rutkovska, Ruta Medne and Marcis Zingis. CHANGES OF BLOOD PARAMETERS BEFORE SMOLTIFICATION IN THE ONE YEAR OLD SEA TROUT IN RECIRCULATION AND FLOW-THROUGH REARING SYSTEMS
201. Tatiana Kuznetsova, Sergey Kholodkevich and Andrew Sharov. MUSSEL'S PHYSIOLOGICAL RESPONSES UNDER DETERGENT ACTION BY MONITORING CARDIAC ACTIVITY
216. Kęstas Plauška and Agnieszka Kijewska. CHARACTERISTICS OF GREENLAND HALIBUT FROM THE BARENTS SEA ACCORDING TO AGE DURING MIGRATION BEFORE SPAWNING
217. Elmira Boikova, Irina Kulikova, Vita Licite and Uldis Botva. RESEARCH MONITORING OF MACROPHYTE COMMUNITIES IN THE GULF OF RIGA
226. Eglė Šidagytė, Kęstutis Arbačiauskas and Jurate Lesutiene. RELATING SPECIES RICHNESS OF PERACARIDA, ECOSYSTEM PRODUCTIVITY AND TROPHIC NICHE OF PONTO-CASPIAN MYSID AND AMPHIPOD IN NATIVE AND INVADDED AREAS



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228. Anna Was and Roman Wenne. GENETIC TRACKING METHOD FOR THE EVALUATION OF STOCKING EFFICIENCY
229. Agnieszka Witkowska, Anita Lewandowska, Lucyna Falkowska, Magdalena Bełdowska and Agnieszka Jędruch. WET DEPOSITION OF ELEMENTAL CARBON AND ORGANIC CARBON TO THE GULF OF GDANSK
238. Olga Susloparova, Tatyana Tereshenkova and Anatoly Hozjajkin. PLANKTONIC AND BENTHOS COMMUNITIES STRUCTURALLY -FUNCTIONAL CHANGES IN NEVA BAY DURING LARGE-SCALE HYDRAULIC ENGINEERING WORKS AND AFTER THEIR COMPLETION
241. Jovita Mėžinė, Edvardas Valaitis, Petras Zemlys and Loreta Kelpšaitė. TEMPORAL AND SPATIAL SHORELINE CHANGE OVER 2012: VERIFICATION OF MODELLING RESULTS
256. Monika Sobiechowska, Joanna Ston-Egiert and Alicja Kosakowska. OVERLOOKED BIOMARKERS - PHYCOBILIN PIGMENTS IN SOUTHERN BALTIC SEA WATERS
262. Viktors Pērkons, Ivars Kažmers and Atis Minde. DISTRIBUTION, AGE STRUCTURE AND DIET COMPOSITION OF THE ROUND GOBY NEOGOBIUS MELANOSTOMUS IN THE LATVIAN COASTAL WATERS (PAPE), BALTIC SEA
263. Liga Brunina and Elina Konstantinova. ECONOMICAL ASSESMENT OF COASTAL EROSION MANAGEMENT AND IMPLEMENTATION MODELS IN LATVIA.
270. Laurent Mortier, Karen Heywood, Dan Hayes, Elena Mauri, Johannes Karstensen and Taavi Liblik. GLIDERS FOR RESEARCH, OCEAN OBSERVATION AND MANAGEMENT - GROOM
272. Anastasija Zaiko, Aurelija Samulovienė, Jose L. Martinez, Alba Ardura and Eva Garcia Vazquez. eDNA APPROCH IN SPECIES IDENTIFICATION WITHIN BALLAST WATERS: CHALLENGES AND OPPORTUNITIES
273. Victor Crego-Prieto, Anastasija Zaiko, Andrea Prado, Agustin Roca and Eva Garcia Vazques. USE OF GENETIC BARCODING FOR TRACKING INVASION PATHWAYS: BALTIC MUSSELS IN SPAIN AS A CASE STUDY
277. Andrius Šiaulys, Dalia Baziuke and Natalija Juščenko. BIOLOGICAL VALORISATION OF LITHUANIAN BALTIC SEA WITH APPLICATION OF FUZZY LOGIC

### Poster session 2. 28 August, Wednesday (Day 2)

Number of submission in Easy chair. Authors. Title
6. Ilya Buynevich, Aldona Damušytė, Donatas Pupienis and Albertas Bitinas. NEW CURONIAN LAGOON EXPOSURES BRING MID-HOLOCENE FISH FOSSILS TO LIGHT
7. Ilya Buynevich, Donatas Pupienis, Albertas Bitinas and Aldona Damušytė. VERTEBRATE TRACKS IN LATE HOLOCENE AEOLIAN SANDS, GREAT DUNE RIDGE, LITHUANIA
18. Oliver Schmale, Gunnar Jakobs, Günter Jost, Katrin Kießlich, Matthias Labrenz, Martin Blumenberg, Christine Berndmeyer and Gregor Rehder. MICROBIAL METHANE CONSUMPTION IN THE WATER COLUMN OF THE CENTRAL BALTIC SEA: GOTLAND DEEP AND LANDSORT DEEP
19. Albertas Bitinas, Anatoly Molodkov, Ilya Buynevich, Aldona Damušytė, Nikita Dobrotin, Virgilija Gregorauskienė, Jonas Mažeika and Donatas Pupienis. DUNE PALAEOYNAMICS AND CHRONOLOGICAL CONTROL, CURONIAN SPIT, SOUTHEASTERN BALTIC
26. Donatas Pupienis, Ilya Buynevich, Darius Jarmalavičius and Gintautas Žilinskas. CROSS-SHORE AND LONGSHORE DISTRIBUTION OF HEAVY-MINERAL CONCENTRATIONS ON THE MAINLAND BALTIC SEA COAST, LITHUANIA
27. Madis-Jaak Lilover. ESTIMATION OF TIDAL CURRENT IN THE GULF OF FINLAND USING DIRECT CURRENT MEASUREMENTS
30. Dmitrij Gerok and Albertas Bitinas. PALAEOINCISIONS ON THE BALTIC SEA LITHUANIAN ONSHORE AND OFFSHORE: EXPLORATION BY A COMPLEX OF GEOPHYSICAL METHODS



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48. Jenny Nilsson, Ida-Maja Hassellöv, Maria Karlberg, My Peterson, Erik Ytreberg and Angela Wulff. EFFECTS OF SEAWATER SCRUBBING ON KEY PHYTOPLANKTON GROUPS OF THE BALTIC SEA
54. Dmitry Sendek, Olga Susloparova. UNRECOGNIZED WHITEFISH WITH HYBRID ORIGIN IN THE EASTERN BALTIC SEA
57. Ekaterina Shurgalina and Efim Pelinovsky. DYNAMICS OF SOLITON FIELDS IN COASTAL ZONE
71. Ira Didenkulova and Artem Rodin. "PARABOLIC CAP" MODEL FOR GRAVITY FLOWS AND SHALLOW WATER WAVES
75. Emilia Szumilo, Julia Hajdrych and Agnieszka Grajewska. SEABIRDS AS BIOMONITORS OF MERCURY INPUTS TO MARINE ENVIRONMENT
78. Monika Nausch, Jana Balke, Pia Steinrücken and Günther Nausch. UTILIZATION OF DISSOLVED ORGANIC PHOSPHORUS BY HETEROTROPHIC BACTERIA
81. Maija Viška and Tarmo Soomere. SPATIO-TEMPORAL VARIATIONS IN THE WAVE-DRIVEN ALONGSHORE SEDIMENT TRANSPORT ALONG THE EASTERN BALTIC SEA COAST
94. Andrey Gusev and Liliya Rudinskaya. GROWTH AND PRODUCTION OF ASTARTE BOREALIS (SCHUMACHER, 1817) (ASTARTIDAE: BIVALVIA) IN THE SOUTHEASTERN BALTIC SEA
101. Elena Averbukh, Andrey Kurkin and Oxana Kurkina. NUMERICAL SIMULATION OF TRAPPED WAVES IN COASTAL AREAS
102. Bert Viikmäe and Tomas Torsvik. ANALYSIS AND COMPARISON OF AUTOMATIC EDDY DETECTION METHODS
104. Waldemar Walczowski, Vadim Paka, Piotr Wieczorek and Victor Zhurbas. THE SLUPSK CHANNEL – IMPORTANT DUCT FOR THE DEEP WATER TRANSPORT
105. Tomas Torsvik and Ira Didenkulova. ANALYSIS OF SHIP GENERATED WAVES - A CASE STUDY FOR PORT PROTECTION
109. Ivan Zavialov and Ilya Yakimov. PROPERTIES OF GRAVITATIONAL FLOWS, WHICH EXCHANGING MASS WITH SEDIMENTS
112. Anna Bulczak, Daniel Rak and Beata Schmidt. CHARACTERISTICS OF DENSE BOTTOM CURRENTS IN THE BALTIC PROPER
119. Ayrat Giniyatullin, Andrey Kurkin, Serge Semin and Yury Stepanyants. SURFACE WAVE TRANSFORMATION AT THE COASTAL ZONE WITH A SHARP BOTTOM JUMP
123. Maris Eelsalu, Tarmo Soomere and Maija Viška. CLOSURE DEPTH ALONG THE NORTH-EASTERN COAST OF THE BALTIC SEA
133. Tatiana Napreenko-Dorokhova, Tatiana Sapelko and Daria Ryabchuk. ENVIRONMENT PALAEORECONSTRUCTION IN THE AREA OF THE GULF OF FINLAND BASED ON PALYNOLOGICAL INVESTIGATIONS OF BOTTOM SEDIMENTS
137. Irina Nikolkina, Tarmo Soomere and Ira Didenkulova. MONITORING OF EXTREME WAVE CONDITIONS IN LAKE PEIPSI
142. Katri Pindsoo and Tarmo Soomere. WAVE SET-UP IN THE URBAN AREA OF THE CITY OF TALLINN, ESTONIA
145. Fred Buschmann, Ants Erm, Madis Listak, Jaan Rebane and Gert Toming. AUTONOMOUS UNDERWATER DEVICE FOR 2D PARTICLE IMAGE VELOCIMETRY FIELD ANALYSIS
155. Violetta Drozdowska, Magdalena Beldowska and Natalie L. Fateyeva. SPECTROPHOTOMETRIC STUDY OF MARINE SURFACTANTS – RESULTS OF BALTIC CRUISES
160. Ira Didenkulova, Katri Pindsoo and Sten Suuroja. POWER LAWS FOR THE CROSS-SHORE PROFILES ALONG ESTONIAN COASTS
163. Gunta Rubene and Lina Livdāne. COPEPOD SEASONAL DYNAMICS AND DISTRIBUTION IN RELATION TO ENVIRONMENTAL FACTORS IN THE GULF OF RIGA
170. Rybalko Alexander. GEODYNAMIC ACTIVITY OF THE EASTERN GULF OF FINLAND: PROBLEMS, MONITORING





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174. Galina Garnaga, Vitalijus Malejevas, Algirdas Stankevičius and Kęstutis Jokšas. STATE OF THE CHEMICAL MUNITIONS DUMPSITE IN THE LITHUANIAN ECONOMIC ZONE
181. Jacek Fabisiak, Bartłomiej Pączek and Jarosław Michalak. THE MODEL OF REACTION AGAINST CWA THREAT POSED BY CAUGHT OR SHORED CHEMICAL MUNITIONS DUMPED IN THE BALTIC SEA AFTER WW-II
182. Merle Muru, Raivo Aunap and Alar Rosentau. PALAEOGEOGRAPHIC RECONSTRUCTIONS OF RUHNU ISLAND IN THE GULF OF RIGA
189. Bartłomiej Pączek, Jacek Fabisiak and Dariusz Grabiec. THE METHODOLOGY OF GEO-REFERENCING THE RESEARCH DATA ON CHEMICAL MUNITIONS DUMPED IN THE BALTIC SEA WITH UTILIZATION OF GIS SOFTWARE
191. Monika Zabłocka and Piotr Kowalczyk. SEASONAL CIRCLE OF SELECTED FLUOROPHORES IN THE BALTIC SEA
195. Stanisław Popiel, Jakub Nawała and Jerzy Mazur. PREPARATION AND ANALYSIS OF SEDIMENT SAMPLES USING GC-MS/MS.
200. Alexander Sergeev, Daria Ryabchuk, Tatiana Gusentsova, Marianna Kulkova, Peter Sorokin, Dmitry Gerasimov and Sergey Lisitsyn. DEVELOPMENT OF HOLOCENE LAGOON SYSTEMS OF THE EASTERN GULF OF FINLAND AND ITS LINKS WITH SETTLEMENTS OF STONE AGE - EARLY METAL
203. Matthias Mossbauer, Ulf Gräwe and Gerald Schernewski. MODEL SIMULATIONS ON DRIFT AND ACCUMULATION OF MACROPHYTES AT THE BALTIC COAST
209. Nijolė Remeikaitė-Nikienė, Galina Lujanienė, Rūta Barisevičiūtė, Galina Garnaga and Algirdas Stankevičius. CHARACTERISTICS OF SUSPENDED PARTICULATE ORGANIC MATTER IN THE LITHUANIAN MARINE WATERS: $\delta^{13}C$ AND $\delta^{15}N$ SIGNATURES
210. Hanna Luhtala and Harri Tolvanen. OPTIMIZING THE USE OF SECCHI DEPTH DATA IN STUDIES OF THE BALTIC SEA EUPHOTIC LAYER
237. Joanna Kielczewska, Dorota Burska, Katarzyna Łukawska-Matuszewska, Izabela Białkowska, Jerzy Bolałek, Zbigniew Witek and Agnieszka Jędruch. HYDROGEN SULPHIDE CONCENTRATION IN PORE WATER IN THE GDANSK BASIN SEDIMENTS
242. Ingrida Bagdanavičiute and Loreta Kelpsaite. VULNERABILITY ASSESSMENT OF THE LITHUANIAN BALTIC SEA COAST
252. Gintautas Narvilas and Rita Jankauskienė. IMPORTANCE OF ROUND GOBY (NEOGOBIOUS MELANOSTOMUS L.) IN THE FEEDING OF PISCIVOROUS FISHES IN THE LITHUANIAN BALTIC SEA COASTAL ZONE
267. Ulrich Schneider, Marcus Kluge and Rainald Haerber. UNEXPLODED ORDNANCE (UXO) IN WIND FARM AREAS IN THE BALTIC SEA AND THE NORTH SEA - HISTORICAL RESEARCH, EXAMINATION METHODS AND CLEARANCE STRATEGIES
268. Lina Davulienė. TRACER DISPERSION FROM THE BOTTOM SOURCE DURING UPWELLING EVENTS AT THE LITHUANIAN COAST
271. Dmitry Dorokhov, Evgenia Dorokhova, Dmitry Tchurin and Marija Kapustina. SUBMERGED HOLOCENE WAVE-CUT CLIFFS MAPPING IN THE SOUTH-EASTERN BALTIC SEA AND ITS LITHODYNAMIC FEATURES
276. Irina Olenina. APPEARANCE OF THE DIATOM CHAETOCEROS CF. LORENZIANUS IN THE LITHUANIAN COASTAL WATERS OF THE BALTIC SEA: RANGE EXPANSION OR HUMAN-MEDIATED INTRODUCTION
283. Ewa Paturej, Magdalena Ewertowska and Monika Janowicz. EVALUATION OF ZOOPLANKTON BIOLOGICAL DIVERSITY IN THE VISTULA LAGOON

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Number of submission in Easy chair. Authors. Title
1. Dmitry Filippenko. MOLLUSKS COMMUNITIES IN THE SALINITY GRADIENT OF THE SOUTHERN BALTIC SEA ESTUARIES
25. Katja Mäkinen, Ilppo Vuorinen and Jari Hänninen. THE LONG-TERM CHANGES IN MESOZOOPLANKTON TAXA IN THE NORTHERN BALTIC ARCHIPELAGO SEA



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34. Ewa Paturej, Magdalena Ewertowska and Monika Janowicz. EVALUATION OF ZOOPLANKTON BIOLOGICAL DIVERSITY IN THE VISTULA LAGOON
43. Andreas Lehmann, Wilma Huneke and Klaus Getzlaff. SEA LEVEL VARIATIONS OF THE BALTIC SEA IN RESPONSE TO CLIMATE VARIABILITY FOR THE PERIOD 1970-2010
49. Barbara Lednicka. SEMI EMPIRICAL MODEL OF REMOTE SENSING REFLECTANCE FOR SOUTHERN BALTIC COASTAL WATERS USED TO POMERANIAN LAKES
50. Anita Poćwierz-Kotus, Agnieszka Kijewska, Małgorzata Zbawicka and Roman Wenne. GENETIC DIFFERENTIATION OF FISH AND SHELLFISH POPULATIONS IN SOUTHERN BALTIC SEA
52. Roman Vankevich, Ekaterina Sofina and Alexey Isaev. VALIDATION OF NEAR REAL TIME GRIDDED SST PRODUCTS FOR GULF OF FINLAND REGIONAL OPERATIONAL SYSTEM NEEDS
53. Ekaterina Sofina, Roman Vankevich, Tatyana Eriomina, Alexey Isaev and Mikhail Molchanov. NEMO BASED HIGH RESOLUTION REGIONAL MODEL CONFIGURATION FOR GULF OF FINLAND
58. Alexander Darr, Mayya Gogina and Michael L. Zettler. DEVELOPMENT OF QUANTITATIVE DISTRIBUTION MAPS FOR SELECTED BIVALVES SPECIES IN THE SOUTHWESTERN BALTIC SEA
62. Tomasz Wolski and Bernard Wiśniewski. DIFFERENTIATION OF EXTREME SEA LEVELS ON THE COASTS OF THE BALTIC SEA
66. Rene Friedland, Thomas Neumann and Gerald Schernewski. FIRST STEPS TOWARDS A BIOGEOCHEMICAL SEDIMENT MODULE FOR ERGOM
73. Anton Dvornikov, Vladimir Ryabchenko, Pavel Andreev and Valery Tzepelev. TESTING OF AN OPERATIONAL FORECASTING SYSTEM FOR THE NEVA BAY, THE EASTERNMOST GULF OF FINLAND
74. Marina Markiiianova. DISTRIBUTION OF SIBLING SPECIES CHIRONOMUS PLUMOSUS (L.) AND CHIRONOMUS BALATONICUS DÉVAI ET AL. (DIPTERA, CHIRONOMIDAE) IN THE CURONIAN LAGOON
77. Andrei Sokolov and Boris Chubarenko. SENSITIVITY ANALYSIS FOR WAVE REGIME IN WAVE-DEFORMATION ZONE IN THE SOUTH-EASTERN BALTIC IN A VIEW OF POSSIBLE CLIMATE CHANGES
79. Marili Viitak and Victor Alari. MODEL STUDY OF WAVE INDUCED SEA-LEVEL SETUP FOR THE BALTIC SEA
91. Agnieszka Kąkol and Anna Szaniawska. CRUSTACEANS FROM THE GULF OF GDAŃSK AS A SOURCE OF NEW SUBSTANCES IN THE HUMAN ECONOMY
100. Agnieszka Zdun and Anna Rozwadowska. AEROSOLS OPTICAL PROPERTIES FOR REMOTE SENSING PURPOSE
117. Elena Esiukova and Zhanna Stont. RESULTS OF REGULAR OBSERVATIONS ON THE COAST OF THE VISTULA LAGOON
124. Svetlana Navrotskaya and Zhanna Stont. THE VARIATIONS THE LONG-TERM TRENDS OF METEOROLOGICAL AND HYDROLOGICAL CHARACTERISTICS FOR THE COASTAL ZONE OF THE VISTULA LAGOON (KALININGRAD REGION, RUSSIA)
132. Linda de Vries. BENEFITS AND RISKS OF OIL SPILL FORECASTING FROM AUTOMATIC SATELLITE DETECTION
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144. Magdalena Beldowska, Jacek Beldowski, Agnieszka Jędruch, Marta Szubska, Justyna Kobos, Stella Mudrak-Cegiołka, Aleksandra Zgrundo, Marcelina Ziółkowska, Bożena Graca, Katarzyna Jankowska, Ewa Kotlarska and Joanna Kiełczewska. MERCURY CONCENTRATION IN THE COASTAL ZONE OF GULF OF GDAŃSK AS A FUNCTION OF CHANGING CLIMATE– PRELIMINARY RESULTS



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150. Marzenna Sztobryn. ARTIFICIAL NEURAL NETWORK APPLICATION IN THE ENSEMBLE OF SEA LEVEL FORECAST
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164. Līna Livdāne, Ivars Putnis and Gunta Rubene. SEASONAL PATTERNS OF HERRING (CLUPEA HARENGUS MEMBRAS L.) FEEDING ECOLOGY IN SEMI-ENCLOSED BRACKISH ENVIRONMENT.
169. Anu Kaskela, Kimmo Alvi, Aarno Kotilainen and Igor Neevin. SEMI-AUTOMATIC CLASSIFICATION OF MULTIBEAM SONAR BACKSCATTER DATA FOR SURFACE SEDIMENT MAPPING IN THE EASTERN GULF OF FINLAND
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175. Heiner Dietze, Klaus Getzlaff and Ulrike Löptien. MOMBA 1.1 - A HIGH-RESOLUTION BALTIC SEA CONFIGURATION OF GFDL'S MOM4P1D COUPLED OCEAN CIRCULATION ICE MODEL
194. Tatiana Bukanova, Zhanna Stont and Oleg Goushchin. SEA SURFACE TEMPERATURE TRENDS IN THE SOUTH-EASTERN BALTIC FROM SATELLITE DATA
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211. Natalia Demchenko and Irina Chubarenko. SEASONAL COURSE OF MIXING AND STRATIFICATION PERIODS IN THE BALTIC SEA
213. Pavel Gasyukov, Olga Dmitrieva, Tatyana Golubkova, Veronica Ryabchun, Elena Naymenko, Lilya Rydinskaya and Andrey Gusev. INTEGRATED TRENDS AND STATUS ANALYSIS OF THE VISTULA LAGOON ECOSYSTEM (BALTIC SEA, 1992-2011)
214. Boris Chubarenko, Elena Esiukova, Lidia Leitsina and Andrey Sokolov. MODEL FOR SALTWEDGE INTRUSION IN THE SYSTEM OF THE VISTULA LAGOON AND THE PREGOLIA RIVER
221. Beata Kowalska, Elzbieta Zawadzka and Jacek Lendzion. THE INFLUENCE OF CLIMATE CHANGES ON COASTAL MANAGEMENT IN HEL PENINSULA
222. Boris Chubarenko, Vladimir Chechko, Viktoria Kurchenko, Vasili Pilipchuk, Lidia Leitsina, Elena Esiukova and Elena Bulycheva. MIXING CONDITIONS AND SEDIMENTATION PROCESSES IN THE VISTULA LAGOON DURING ICE-COVER PERIOD
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227. Arunas Balciunas, Nerijus Blazauskas and Kestas Plauska. THE COMPOSITION, DISTRIBUTION AND RELATIVE THREAT ASSESSMENT OF MARINE LITTER IN LITHUANIAN COASTAL ZONE
243. Arūnas Galkus, Kęstutis Jokšas and Rimutė Stakėnienė. STUDY OF ENVIRONMENTAL RISKS AT KLAIPĖDA PORT WATERS
248. Tatiana Kuznetsova, Sergey Kholodkevich and Valeriy Trusevich. ADAPTIVE RESPONSES OF BLACK SEA MUSSELS TO DETERGENT DODECYL SULFATE OF SODIUM (SDS)
250. Mihhail Zujev. STATISTICAL PROPERTIES OF WAVE CLIMATE IN THE EASTERN BALTIC SEA



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251. Jolita Petkuviene, Gianmarco Giordani, Mindaugas Zilius, Marco Bartoli and Arturas Razinkovas-Baziukas. SEDIMENTARY PHOSPHORUS DYNAMICS IN THE CURONIAN LAGOON (LITHUANIA)

255. Emelyan Emelyanov and Giedre Vaikutiene. HOLOCENE ENVIRONMENTAL CHANGES DURING ANCYLUS-LITORINA PERIOD IN THE GDANSK BASIN, SOUTH-EASTERN BALTIC SEA

274. Aleksandr Babakov and Boris Chubarenko. COASTAL CURRENTS WITHIN THE SAMBIAN – CURONIAN CONCAVITY

284. Solvita Strake, Vadim Yermakov, Atis Minde, Iveta Jurgensone, Madara Alberte and Sveta Romanovicha NEW BENTHIC, FISH AND PELAGIC INDICATORS FOR ASSESSING BIODIVERSITY IN THE GULF OF RIGA, BALTIC SEA