



Programme of the 10th Baltic Sea Science Congress

15 June			
16.00 - 20.00	10th BSSC registration, Hotel Radisson Blue Latvija		
BONUS Young Scientist Club Event, Faculty of Biology, University of Latvia, Kronvalda blvd.4			
16.30 - 18.30	Lecture and workshop		
18.30 - ...	Get-together party		
16 June			
8.00-9.00	10th BSSC registration, Hotel Radisson Blue Latvija		
9.00-10.30	Opening of the 10th BSSC. <i>Keynote lecture by Hans von Storch</i>		
10.30-11.00	Coffee break		
Thematic sessions			
	<i>Coastal seas - towards better understanding</i>	<i>Spatial marine ecology in support of ecosystem-based management</i>	<i>Keeping climate change in focus: ecosystem impacts, mitigation and adaptation measures</i>
Session chairs	<i>Juri Elken, Kai Myrberg</i>	<i>Markku Viitasalo, Henn Ojaveer</i>	<i>Markus Meier, tbd</i>
11.00 -11.20	BÄRBEL MÜLLER-KARULIS, OLEG SAVCHUK AND BO GUSTAFSSON. Interactions between subbasins mitigate the effects of hypoxia on Central Baltic Sea nutrient dynamics	RIIKKA VENESJÄRVI et al. Species distribution modelling as basis for the ecosystem-based management: a case study for the eastern Baltic Sea	JAAK JAAGUS et al. Regime shifts in the natural environment in the Northern Baltic Sea region in late 1980s

11.20-11.40	RALF WEISSE AND HENDRIK WEIDEMANN. Storm surge climate in the Western Baltic Sea 1948-2012	ANU KASKELA et al. Knowledge on marine geo-biointeractions for the spatial planning and conservation of the Gulf of Finland	JÜRI ELKEN, ANDREAS LEHMANN AND KAI MYRBERG. Recent changes in Baltic Sea oceanographic conditions, with some effects to the ecosystem status
11.40-12.00	SEBASTIAN GRASHORN et al. Unstructured grid model simulations in the North and Baltic seas during a storm surge event	THOMAS KIRK SØRENSEN et al. Multidisciplinary mapping of fish habitats in the Sound, Denmark for maritime spatial planning	MARKUS MEIER. Challenges in climate system modelling for the Baltic Sea, North Sea, Mediterranean Sea and Arctic Ocean regions
12.00-12.20	HENRI RÄSTAS, VICTOR ALARI AND URMAS RAUDSEPP. Projected changes of the significant wave height in the Baltic Sea by the end of 21th century	NOORA MUSTAMÄKI et al. Seasonal small-scale variation in distribution among depth zones in a coastal Baltic Sea fish assemblage	THORSTEN BLENCKNER et al. Assessing the ocean health of the Baltic Sea
12.20-12.40	JAN-VICTOR BJÖRKQVIST et al. A multi-year wave measurement campaign in the Helsinki coastal archipelago	TIMO ARULA, HENN OJAVEER AND TIIT RAID. Mortality and growth at larval stage: advancing the understanding of stock dynamics processes in the Gulf of Riga spring spawning herring (<i>Clupea harengus membras</i>)	ADOLF KONRAD STIPS, DIEGO MACIAS AND ELISA GARCIA-GORRIZ. Correlation and Causation: Changing Baltic Sea Climate
12.40-13.00	OLGA KOVALEVA, TARMO SOOMERE AND MARIS EELSALU. Comparison of the wave power for the open and sheltered segments of the Baltic Sea coast	ANNA TÖRNROOS AND ERIK BONSDORFF. Interpreting ecological functioning in coastal waters: spatial and temporal trait patterns across the Baltic Sea	ANDREY PEDCHENKO. whether only climate changes influence stocks, distribution of pelagic fishes and fishing in the baltic sea?
13.00-14.00	Lunch		
14.00-14.20	TOMAS TORSVIK, IRA DIDENKULOVA AND V.V.S.S.R. HEMANTH. Measurements of wave transformation in the coastal zone	JÜRATĖ LESUTIENĖ et al. Use of stable isotopes to track the fate of cyanobacteria production in estuarine food webs	JANI SÄRKKÄ et al. Simulated sea levels of the Baltic Sea from different climate scenarios
14.20-14.40	EDITH SOOSAAR et al. On the dynamics of the river bulge using satellite imagery and numerical model, case study of Daugava river bulge.	SERGEI GOLUBKOV, MIKHAIL GOLUBKOV AND NADEZHDA BEREZINA. Pelagic-benthic coupling in the Neva estuary (Eastern Gulf of Finland).	BIRGIT HÜNICKE, EDUARDO ZORITA AND SITAR KARABIL. Detection of acceleration in long-term Baltic Sea level trends -challenges and caveats.
14.40-15.00	URMAS LIPS et al. Mesoscale variability and river plume dynamics in the Gulf of Riga (a model study)	NADEZHDA BEREZINA. Food web structure in the coastal areas of the Neva estuary under eutrophication	UWE BUCZKO et al. Carbon storage in coastal reed beds of the southern Baltic Sea – a possible contribution to greenhouse gas mitigation?

15.00-15.20	HEINER DIETZE AND ULRIKE LOEPTIEN. Simulating eddy - wind interaction with MOMBA	LIIS ROSTIN AND GEORG MARTIN. Colonization pattern of new hard substrate – study on the possible effects of construction of wind farm in the northern Gulf of Riga	NIKOLAUS GROLL AND MICHAEL MEESE. Present and future wave climate for the Baltic Sea.
15.20-15.40	JOANNA STANEVA et al. Baltic Sea Ocean State Predictions by assimilating of temperature and salinity data	MARIE JÄRNSTRÖM et al. Ecosystem Functioning in Coastal Areas - the Role of the Macrofauna	ULPU LEIJALA et al. Combining short- and long-term sea level variations to evaluate future flooding risks on the Finnish coast
15.40-16.00	SEBASTIAN GRAYEK AND EMIL STANEV. Analysis Of An Offline Coupling Approach For The North-Baltic Sea	ELINA VIRTANEN et al. New spatial model on benthic oxygen conditions reveals problem areas prone to anoxia in the complex archipelagoes of the northern Baltic Sea	EDVARDAS VALAITIS et al. Impact of hurricane Felix on the Lithuanian SE Baltic sandy beach
16.00-16.20	Coffee break		
			<i>A healthy marine ecosystem: how to measure it? Chairs: tbd</i>
16.20-16.40	OLEG SAVCHUK. SANFISH: fish in NEST vs. fish in nets	MARI JOENSUU et al. Sediment stability and resuspension induced nutrient fluxes over habitat gradients	RENE FRIEDLAND, GERALD SCHERNEWSKI AND THOMAS NEUMAN. The good ecological state in the south-western Baltic Sea – defined with an integrated modeling approach and reached with the BSAP
16.40-17.00	ILJA MALJUTENKO AND URMAS RAUDSEPP. Renewed circulation scheme of the Baltic Sea – based on the 40-year simulation with GETM.	MARTYNAS BUČAS et al. Distribution of charophytes in the Curonian lagoon and impact of environmental factors	SERGEJ OLENIN. A healthy (part of Baltic) marine ecosystem? The Lithuanian case study
17.20-17.40	IRINA CHUBARENKO AND NATALIA STEPANOVA. Role of intermediate layers in the thermohaline circulation of the Baltic Sea.	SERGEY ALEKSANDROV. Eutrophication and pollution of the Curonian and Vistula lagoons	ANDERS CHRISTIAN ERICHSEN et al. Setting WFD N reductions based on mechanistic models
17.40-18.00	KATHARINA HÖFLICH et al. On the atmospheric and oceanic conditions associated with large volume changes (LVCs) and major inflows (MBIs) to the Baltic Sea	ERIK KOCK RASMUSSEN et al. Ecological model of the Riga Bay area: a contribution to the BONUS project BIO-C3	SOFIA A. WIKSTRÖM et al. Response of macroalgal vegetation to eutrophication and natural environmental gradients – implications for indicator development
18.30-20.30	"Icebreaking" party (location will be announced later)		

17 June			
8.00-13.45	10th BSSC and BONUS Forum Policy Day		
8.00-9.00	Registration and coffee		
9.00-9.10	Opening of the Policy Day		
9.10-9.50	"In a quest to embed marine goods and services to societal action in support of region's prosperity" , a keynote lecture by Rudolf de Groot		
9.50-10.05	MAIKE PIEPHO AND HENDRIK SCHUBERT. Baltic Coastal System Analysis and Status Evaluation (BACOSA)		
10.05-10.20	HOLGER JANSEN, STEPHEN JAY, THOMAS KLENKE AND MICHAEL GILEK. Integration Challenges in MSP and the concept of an ecosystem approach		
10.20-11.00	Facilitated panel discussion – policymakers, industry, scientists. Conclusions		
11.00-11.30	Coffee break		
11.30-12.05	"In a search of the best cross-border and -sector governance model" , a keynote lecture by Mike Elliott		
12.05 -12.20	ANTTI IHO, MARC RIBAUDO AND KARI HYYTIÄINEN. Water Protection in the Baltic Sea and the Chesapeake Bay: Institutions, Policies and Efficiency		
12.20-12.35	ZRINKA MENDAS. Toward a sustainable spatial island ecosystem of island archipelago in Zadar, Croatia		
12.35-13.15	Facilitated panel discussion – policymakers, industry, scientists. Conclusions		
13.15-13.45	The emerging Policy day declaration (to be delivered at the end of BSSC on 19 June), summing up the day		
13.45-14.40	Lunch		
Thematic sessions			
	<i>Spatial marine ecology in support of ecosystem-based management</i>	<i>Coastal seas - towards better understanding</i>	<i>A healthy marine ecosystem: how to measure it?</i>
Session chairs	<i>Piotr Margonski, tbd</i>	<i>tbd</i>	<i>tbd</i>
14.40-15.00	MARKKU VIITASALO et al. The Finnish Inventory Programme for Underwater Marine Environment (VELMU) produces data for knowledge-based Maritime Spatial Planning	ANJA EGGERT AND BERND SCHNEIDER. A nitrogen source in spring in the surface mixed-layer of the Baltic Sea: Evidence from total nitrogen and total phosphorus data	JONNA TEIKARI et al. Impact of major environmental stressors on bacterial community in the Baltic Sea
15.00-15.20	KRISTIINA NURKSE et al. Invasive epibenthic predators' impact on benthic communities functioning	MARILIIS KÕUTS et al. Long-term model study of nutrient and detritus dynamics in the Baltic Sea	CHRISTIN BENNKE et al. From mechanistic to functional monitoring – guiding microbial indicators into practical operability

15.20-15.40	ELENA NAUMENKO. Long-term abundance dynamics of invader <i>Cercopagis pengoi</i> (Ostroumov, 1891) in the Vistula lagoon of the Baltic Sea and its impact on zooplankton	JANA WÖLFEL, MARKO LIPKA AND GREGOR REHDER. Seasonal benthic gas and nutrient dynamics at different sediment water interface, Western Baltic Sea (Germany)	CHRISTIAN ALSTERBERG et al. Multiple stressors and multifunctionality – limited effects on an illuminated benthic system
15.40-16.00	INGA LIPS et al. Spring bloom in the Gulf of Finland – interannual variability caused by meteorological and hydrological conditions	MINDAUGAS ŽILIUS et al. Rates of denitrification in a freshwater shallow estuary: a real sink of nitrate generated in the watershed?	KATJA BROEG, MATTHIAS BRENNER AND REGINA BAUDE. Biological effects of chemical warfare agents analysed in the head-kidney of cod
16.00-16.20	JENNIE BARTHEL SVEDÉN AND JAKOB WALVE. Changes in nitrogen fractions during the summer bloom of nitrogen-fixing cyanobacteria in the northern Baltic Proper	IRMA LUBIENE et al. Nutrient load, net balances and ecological stoichiometry in a hypereutrophic estuary	BRITTA EKLUND. The use of Ceramium tenuicorne growth inhibition test for testing effects of boat activities – leakage from antifouling paints, contaminated sediment and soil
16.20-16.40	ALEXEY MAXIMOV AND TATJANA EREMINA. Synchronous shifts in nutrients and macrozoobenthos in the eastern Gulf of Finland	SAMI JOKINEN et al. Seasonal sedimentation cycle and flow-influenced mud deposition inferred from a microfabric study of laminated sediments in the northern Baltic Sea coast	JOACHIM KUSS. The reaction of the marine ecosystem on toxic mercury
16.40 - 17.00	Coffee break		
17.00-19.30	<p style="text-align: center;">Poster session</p> <p style="text-align: center;">Workshop on Baltic Sea stratigraphy (chair Joonas Virtasalo)</p> <p style="text-align: center;">Committee meetings</p>		

18 June				
8.30-10.00	Keynote lectures by Herman Hummel and Kai Myrberg			
10.00-10.30	Coffee break			
Thematic sessions				
	<i>Coastal seas - towards better understanding</i>	<i>Observation, monitoring and forecasting of the Baltic Sea's status: The new generation</i>	<i>Just ice and stones? - Updates of geological research in the Baltic Sea area</i>	Technology transfer workshop 10.30-14.30
Session chairs	<i>tbd</i>	<i>Urmas Lips, Juris Aigars</i>	<i>Jan Harff, Laimdota Kalnina</i>	<i>Speakers and</i>

10.30-10.50	PEKKA ALENIOUS et al. A zoom to the Gulf of Finland hydrography	ANTTI WESTERLUND AND LAURA TUOMI. Analysis of Vertical Mixing in the Northern Baltic Sea based on 3D Modelling and Data from Shallow-Water Argo Floats	JAN HARFF et al. Why is the Baltic Sea special in coastal morpho-dynamics ? A comparative study	<i>programme will be announced later</i>
10.50-11.10	NICOLE DELPECHE-ELLMANN AND TOMAS TORSVIK. Examination of the effects of wind induced forcings on surface drifters circulation patterns in the Gulf of Finland	RALF PRIEN, MAREIKE FLOTH-PETERSON AND DETLEF SCHULZ-BULL. Profiling mooring GODESS - the first 100 km of profiles from the Gotland Basin	ANU KASKELA et al. EMODNET-GEOLOGY – seabed substrates and sedimentation rates of the European seas	
11.10-11.30	MADIS-JAAK LILOVER AND JÜRI ELKEN. Variability of low-frequency currents in the Gulf of Finland	PEKKA ALENIOUS AND KIMMO TIKKA. Gliders in the Baltic Sea	ELINOR ANDRÉN. Long-term trends of hypoxia in the coastal zone, North-Western Baltic Proper	
11.30 -11.50	URMAS LIPS et al. Wintertime reversals of estuarine circulation and related changes in oxygen and nutrient conditions in the Gulf of Finland	ANDREAS LEHMANN, IRA DIDENKULOVA AND KATHARINA HÖFLICH. A simple approach to determine the Stokes drift for the entire Baltic Sea	JOONAS VIRTASALO et al. Seafloor environment and zoobenthic communities in the easternmost gulf of Finland during the past six millennia, and the influence of the birth of the Neva River	
11.50-12.10	TAAVI LIBLIK AND URMAS LIPS. Wind-driven variability of pycnoclines in the Gulf of Finland	VICTOR ALARI AND JOANNA STANEVA. Response of water circulation, temperature and salinity to wind wave effects in the Baltic and North sea's	DARIA RYABCHUK et al. New data about postglacial development of the Eastern Gulf of Finland	
12.10-12.30	URMAS LIPS et al. Modeling submesoscale processes in the Gulf of Finland - case scenario upwelling events in the summer 2006	ZAPADKA TOMASZ, ADAM KRĘŻEL AND MARCIN PASZKUTA. Radiation budget of the sea surface from SatBaltic operational system data	KLAUS SCHWARZER et al. Influence of the gateway Fehmarn Belt on the Holocene development of Mecklenburg Bay	
12.30-13.30	Lunch			
13.30-13.50	MARCUS RECKERMANN, HANS VON STORCH AND ANDERS OMSTEDT. Results of the Second Assessment of Climate Change for the Baltic Sea Region (BACC II)	ANDREAS TRZUSKOWSKY AND DIRK ABEL. SeaGATE: Navigation Satellite System Environment for Testing and Validation	JĀNIS LAPINSKIS. Development of guidelines for coastal erosion mitigation in Latvia	

13.50-14.10	MICHAEL NAUMANN et al. Analysis of the exceptional ventilation event during wintertime and spring 2014 after a decade of anoxic deep-water conditions in the Baltic Sea.	HARRI TOLVANEN AND HANNA LUHTALA. Geographic data properties and applicability in maritime spatial planning	THOMAS ANDRÉN et al. Towards an integrated age-model for the International Ocean Discovery Program (IODP) Expedition 347 Site M0059, Little Belt
14.10-14.30	TARMO SOOMERE AND MARIS EELSALU. Separation of the Baltic Sea water level into short-term and multi-weekly components	KIM DAHLGREN STRAAT et al. Modelling the generation and transport of particulate organic carbon in the Baltic Sea watersheds	ILYA BUYNEVICH et al. Comparative sedimentology and internal structure of early stage coastal mega-ridges at Cape Kolka, Latvia
14.30-14.50	MĀRIS SKUDRA AND URMAS LIPS. Inter-annual changes in temperature, salinity and density distribution in the Gulf of Riga	GEORG UMGIESSER et al. CISOCUR – Numerical modelling of stable isotope distribution in the Curonian Lagoon	DENNIS BUNKE et al. Possible causes of sediment dynamics and mixing in western Baltic Sea basins
14.50-15.10	KATRI PINDSOO AND TARMO SOOMERE. Trends in extreme water levels of the eastern Baltic Sea	ANASTASIJA ZAIKO et al. Molecular approaches for non-indigenous species surveillance – from introduction pathways to established populations	AARNO T. KOTILAINEN et al. Holocene sedimentation in estuaries of the Baltic Sea – an Ångermanälven case study
15.10-15.30	GREGOR REHDER et al. Controls on methane fluxes and turnover in the water column of the Baltic Sea – a review reflecting the potential impact of the 2014/2015 major inflow event	ALEKSAS NARŠČIUS AND SERGEJ OLENIN. A new generation information system on marine bioinvasions (AquaNIS) for management and research	MARIYA N. GOLENKO et al. Effects of geostrophic currents and inertial waves on sediment erosion in the South-East Baltic
15.30-15.50	Coffee break		
15.50-16.10	Poster session Round-table discussion “Development and implementation of novel indicators for Baltic Sea monitoring” (<i>chairs</i> : Lasse Riemann, Matthias Labrenz) Committee meetings		ALAR ROSENTAU. Coastal change and stone age shore-bound settlements in Estonia
16.10-16.30			ANDIS KALVĀNS AND TIIT HANG. Clues about water circulation in the Baltic Ice Lake (BIL) recorded in the varve clays in the Pärnu Bay area
16.30-16.50			ILYA BUYNEVICH et al. Geoarchaeological implications of biogenically induced high-amplitude GPR anomalies in Baltic and Bahamian coastal dunes
16.50-17.10			OLGA KOVALEVA, BORIS CHUBARENKO AND DARIA RYABCHUK. Analysis of sediment transport pattern along the coastal line of the Russian part of the Curonian Spit

17.10-17.30		MAŁGORZATA BAŁ et al. CLIMLINK: Climate forcing factors for marine environmental change during the mid- and late Holocene – a link between the NE Atlantic and the Baltic Sea.
19.30-22.30	Congress dinner at Latvian Railway Museum	

19 June		
9.30-11.00	Keynote lectures by Volker Morholz, Henn Ojaveer (tbc) and Tarmo Soomere (tbc)	
11.00-11.30	Coffee break	
11.30-12.30	Closing ceremony of the Congress - declarations, announcements, next location and focus	