

The 11th Baltic Sea Science Congress

‘Living along gradients: past, present, future’



PROGRAMME

June 12 – 16, 2017



The 11th Baltic Sea Science Congress

‘Living along gradients: past, present, future’

Organised by:



Universität
Rostock



Traditio et Innovatio

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Walczowski, Waldemar	Institute of Oceanology of the Polish Academy of Sciences	Poland
Zhuravlev, Sergei	Russian State Hydrological Institute St. Petersburg	Russia

LOCAL ORGANISATION TEAM:

Helge Arz, Ulrich Bathmann, Barbara Hentzsch, Sandra Kube, Regine Labrenz, Markus Meier, Hendrik Schubert, Detlef Schulz-Bull contact: bssc2017@io-warnemuende.de

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09:00 – 10:00	Registration + Coffee		
10:00 – 10:30	Congress opening	Welcome address by: Wolfgang Schareck Welcome address by: Ulrich Bathmann	Rector of the University of Rostock Director of the Leibniz Institute for Baltic Sea Research Warnemünde Room 'Rostock'
10:30 – 11:15	Opening lecture:	Martin Visbeck	'The future of the ocean – challenges and opportunities for humanity' Room 'Rostock'
11:15 – 12:00	Keynote:	Maren Voß	'Continuum and gradients: what are the linkages of nutrient cycles in the Baltic Sea' Room 'Rostock'
12:00 – 13:15	Lunch break		
	Session 1: Dynamics of gradient systems Session chair: Karol Kulinski Room 'Rostock'	Session 2: Processes that affect coastal seas Session chair: Jacob Carstensen Room 'Demmin'	Crosscutting session: Major Baltic Inflows Session chair: Laura Tuomi Room 'Wismar'
13:15 – 13:30	Winogradow, A., Szymczycha, B., Koziarowska, K., Stokowski, M., Kulinski, K., Pempkowiak, J.: Stable carbon isotopic signatures of the Baltic organic matter - revisited. Constraints related to the origin, season, area and depth	Razinkovas-Baziukas, A., Bartoli, M., Bresciani, M., Giardino, C., Gasiūnaitė, Z., Griniienė, E., Lubienė, I., Petkuvienė, J., Pilkaitytė, R., Umgiesser, G., Vaičiūtė, D., Žilius, M.: To bloom or not to bloom: the genesis and consequences of cyanobacteria blooms in the Baltic lagoons	Mohrholz, V.: Major Baltic Inflow statistics - revisited
13:30 – 13:45	Böttcher, M.E., Lapham, L., Gussone, N., Struck, U., Buhl, D., Immenhauser, A., van Zuilen, K., Nögler, T.F., Pretet, C., Dellwig, O., Huckriede, H., Halas, S.: Multi-isotope (C - O - S - H - B - Mg - Ca - Ba) and trace element variations in a pore water profile across a brackish-fresh water transition of a Baltic Sea sediment	Loick-Wilde, N., Eglite, E., Weber, S., Schulz-Bull, D., Wodarg, D., Liskow, I., Wasmund, N., Montoya, J.P.: Amino acid synthesis and turnover during N ₂ fixation in a decaying cyanobacteria bloom and biochemical match with zooplankton	Umlauf, L., Holtermann, P. L.: Detailed observation of rotating bottom gravity currents induced by a Major Baltic Inflow
13:45 – 14:00	Müller-Karulis, B., Sundh, J., Berg, C., Hagström, Å., Humborg, C.: Including bacterial DOC uptake into a biogeochemical model of the Baltic Sea	Klais, R., Otto, S.A., Teder, M., Simm, M., Ojaveer, H.: Winter-spring climate effects on small-sized copepods in the coastal Baltic Sea	Höflich, K., Lehmann, A., Myrberg, K.: Towards an improved mechanistic understanding of major saltwater inflows into the Baltic Sea
14:00 – 14:15	Lips, U., Liblik, T., Lips, I., Rünk, N., Kikas, V., Laanemets, J., Väli, G.: A cascade of multi-scale processes shaping the signal dynamics and maintaining the energy transfer in stratified Baltic Sea basins	Bathmann, U., Böttcher, M. E., Forster, S., Gogina, M., Hiller, A., Kunz, F., Lipka, M., Liu, B., Morys, C., Renz, J., Schernewski, G., Zettler, M. L.: Linking abiotic and biotic information for evaluation of sedimentary services in the German Baltic Sea	Lehmann, A., Höflich, K., Herrford, J., Getzlaff K.: Climate variability, extremes and trends of total sea level variations of the Baltic Sea
14:15 – 14:30	Buschmann, F., Suhhova, I., Liblik, T., Lips, U.: On the turbidity dynamics in the near-bottom layer of the Gulf of Finland	Gogina, M., Lipka, M., Woelfel, J., Liu, B., Böttcher, M. E., Zettler, M. L.: Who or what shapes the gradients in pore-water profiles? On the hunt for an explanation of the impact of benthic macro-fauna on biogeochemistry and benthic-pelagic element coupling	Brunnabend, S.-E., Meier, H.E.M., Lange, X.: Global mean sea level rise changes salt inflow into the Baltic Sea
14:30 – 14:45	Lilover, M.-J., Köuts, T., Leppäranta, M.: High-resolution ice dynamics in the Gulf of Finland	Kininmonth, S., Blenckner, T., Niiranen, S., Watson, J., Orio, A., Cimini, M.: Disentangling environmental and trophic volatility for a fishery in flux: Non-stationary modeling of the Baltic Sea system.	Stanev, E.V., Pein, J., Grashorn, S., Schrum, C.: Two-layer exchange between the North Sea and the Baltic Sea. Fine-resolution 3D numerical modelling
14:45 – 15:15	Coffee break		

09:00 – 09:45	Keynote:	Hans-Otto Pörtner	‘Climate change impacts on ocean biology: physiological underpinnings, projections and uncertainties’		Room ‘Rostock’
	Plenary lectures	Chair: Lasse Riemann	Room ‘Rostock’		
09:45 – 10:00		Dähne, M., Herrmann, A., Westphal, L., von Vietinghoff, V., Benke, H., Gallus, A.:	Marine mammals in Mecklenburg-Western Pomerania – combining different methods is necessary for acquiring the full picture		
10:00 – 10:15		Kaskela, A.M., Kotilainen, A.T.:	Quantifying seabed geodiversity of the Baltic Sea		
10:15 – 10:30		Schimanke, S., Ridal, M., Olsson, E., Undén, P. et al.:	High resolution regional reanalysis over Europe for 1961-2015		
10:30 – 10:45		Schneider, B., Müller, J.D.:	High-resolution pCO ₂ measurements on a cargo ship in the Baltic Sea: Progress in biogeochemical research by the analysis of CO ₂ data		
10:45 – 11:15	🕒	Coffee break			
	Crosscutting session: Major Baltic Inflows Session chair: Urmas Lips	Session 2: Processes that affect coastal seas Session chair: N.N.		Session 4: Coastal seas and society Session chair: Anda Ikauniece	
	Room ‘Wismar’	Room ‘Demmin’		Room ‘Rostock’	
11:15 – 11:30	Daewel, U., Schrum, C.: Using scenario modelling to understand long-term changes in Baltic Sea ecosystem dynamics and eutrophication	Viikmäe, B., Torsvik, T.: Analysing Lagrangian timescales in the Gulf of Finland		Hummel, H., Razinkovas, A., van der Meer, J., Provenzale, A., Hummel, C.: The role of ecosystem services and pressures in protected areas: different views of scientists and PA managers	
11:30 – 11:45	Prien, R.D., Floth-Peterson, M., Pallentin, M., Holtermann, P., Schulz-Bull, D.E.: Eulerian observation of the 2014/2015 Major Baltic Inflow in the Eastern Gotland Basin	Giudici, A., Kalda, J., Soomere, T.: Compressibility of surface flows under the combined effect of currents and winds		Inacio, M., Schernewski, G., Nazemtseva, Y., Benz, J., Friedland, R.: Marine ecosystem services assessment: from Szczecin Lagoon to Pomeranian Bay	
11:45 – 12:00	Bonaglia, S., Hylén, A., Kononets, M.Y., Marzocchi, U., Nilsson, M., Almroth-Rosell, E., Hall, P.O.J.: The 2014 Major Baltic Inflow affected benthic greenhouse gas emissions in the Baltic proper: <i>an in situ</i> study	Roija, P., Siiriä, S., Alenius, P., Westerlund, A., Purokoski, T.: Deep currents in the Bothnian Sea observed with Argo Floats		Virtasalo, J., Kotilainen, A.: Assessment of human and climate change impacts on the coastal Baltic Sea floor	
12:00 – 12:15	Rehder, G., Hietanen, S., Jilbert, T., Jürgens, K., Myllykangas, J.-P., Naumann, M., Paul, L., Otto, S., Schmale, O., Werner, J.: There and back again: The impact of the 2014 MBI and later return to anoxic conditions on the dynamics of methane and nitrous oxide	Tuomi, L., Vähä-Piikkiö, O., Alenius, P., Björkqvist, J.-V., Kahma, K.K.: Hindcast statistics of surface Stokes drift in the Baltic Sea		Raateoja, M., Setälä, O., Vesikko, L., Myrberg, K.: The results of the Gulf of Finland year 2014 thematic assessment	
12:15 – 12:30	Dellwig, O., Meyer, D., Pollehne, F., Schnetger, B., Arz, H. W.: Impact of the Major Baltic Inflow (2014) on manganese and trace metal cycling in the Gotland Basin (Baltic Sea)	Vortmeyer-Kley, R., Gräwe, U., Feudel, U.: Eddy census of the central Baltic Sea for the period 2012-2014		Luttmann, A., Janßen, H., Gilek, M., Saunders, F.: Integration in Maritime Spatial Planning as an enabler for sustainable governance in coastal and marine waters	
12:30 – 12:45	Marzocchi, U., Van de Velde, S., Risgaard-Petersen N., Meysman F., Hall, P.: A Major Baltic Inflow creates a temporal niche for cable bacteria in Eastern Gotland Basin sediments	Free time slot for discussions		Schiele, K.S., Darr, A., Pesch, R., Schuchardt, B., Siebert, U., Unger, B., Herr, H., Fließbach, K., Garthe, S.: Towards an ecosystem approach in Marine Spatial Planning	
12:45 – 14:00	🕒	Lunch break			

	Session 1: Dynamics of gradient systems Session chair: Lasse Riemann Room 'Rostock'	Session 2: Processes that affect coastal seas Session chair: Irina Telesh Room 'Demmin'	BONUS Workshop 'Technology for Science' Room 'Wismar'
14:00 – 14:15	Teikari, J.E., Fewer, D.P., Shrestha, R., Hou, S., Leikoski, N., Mäkelä, M., Simojoki, A., Hess, W.R., Sivonen, K.: Phosphonates, an additional phosphorus source for <i>Nodularia spumigena</i> cyanobacteria in the Baltic Sea	Carstensen, J., Gustafsson, E., Gustafsson, B., Chiericci, M.: Long-term and seasonal trends in coastal carbonate systems	Keynote Schulz-Bull, D.: Modern technology for the measurement of trace chemicals in seawater Keynote Lips, U.: Gliders as a valuable component of the Baltic Sea research infrastructure: experiences and perspectives
14:15 – 14:30	Herlemann, D.P.R., Lundin, D., Andersson, A.F., Labrenz, M., Jürgens, K.: Structuring of Baltic Sea bacterial communities by salinity and season	Elovaara, S., Degerlund, M., Kaartokallio, H., Tamelander, T.: Phytoplankton viability as a crossroad in organic carbon flow	
14:30 – 14:45	Nowak, P., v. Ammon, U., Rohde, H., Schaible, R., Schoor, A., Schubert, H., Steinhardt, T: Analysis of diaspore bank of Baltic coastal waters	Nausch, M., Nausch, G., Unger, J., Steinrücken, P., Bach, L., Achterberg, E., Riebesell, U., Wannicke, N.: Dissolved organic phosphorus in the Baltic Sea - concentration, composition and uptake	
14:45 – 15:00	Lehmann, A., Hinrichsen, H.-H., Höflich, K.: Climate variability of hydrographic conditions of the Baltic Sea and their impact on cod nursery areas	Thoms, F., Gogina, M., Janas, U., Kendzierska, H., Voss, M.: Muddy vs. sandy - a new view on sedimentary nutrient fluxes by means of a Chamber Lander	
15:00 – 15:15	Stuckas, H., Knöbel, L., Schade, H., Breusing, C., Hinrichsen, H.-H., Bartel, M., Langguth, C., Melzner, F.: Hybridisation between Baltic blue mussels (<i>Mytilus edulis</i> , <i>M. trossulus</i>): Does pervasive gene flow cause adaptation to low salinity conditions?	Edman, M., Almroth-Rosell, E., Eilola, K., Meier, M.: Model based inventory of nutrient retention efficiency and coastal filter function along the Swedish coastline	Rehder, G., Müller, J.D., Schneider, B., Anderson, L., Turner, D., Aßmann, S., Fietzek, P., Bastkowski, F., Kuliński, K.: Towards accurate, long-term traceable pH-measurements in the Baltic Sea: rationale, results and vision of the BONUS PINBAL project
15:15 – 15:45 ⓘ	Coffee break		
	Session 3: Past and future changes Session chair: Elinor Andrén Room 'Demmin'	Session 4: Coastal seas and society Session chair: Teresa Radziejewska Room 'Rostock'	BONUS Workshop 'Technology for Science' Room 'Wismar'
15:45 – 16:00	Tamelander, T., Degerlund, M., Elovaara, S.: Plankton phenology and pathways of primary production in the warming northern Baltic Sea	Karnauskaitė, D., Schernewski, G.: An indicator system to support coastal and marine management	von Borries, J., Chavet, S., Andersen, A., Riemann, L., Labrenz, M.: <i>In situ</i> fixation as an innovative tool providing unbiased samples for studying microbial activities in aquatic environments
16:00 – 16:15	Buczko, U., Schwark, F., Karstens, S., Glatzel, S., Lai, D.: Carbon stocks and carbon sequestration in coastal reed beds of the southern Baltic Sea	Friedland, R., Buer, A.-L., Dahlke, S., Fritsche, B., Inacio, M., Paysen, S., Schernewski, G., Schumacher, J., Stybel, N.: Nutrient retention measure in German Baltic Sea waters – potentials and limits of some eco-technologies	
16:15 – 16:30	Aunins, A., Dierschke, V., Markones, N.: Highly visible indicators of change: Population trends of waterbirds breeding and wintering along the Baltic Sea coast	Örey, S., Kraus, G., Tomkiewicz, J., Haslob, H., Reusch, T., Dierking, J.: Thinner females - fewer eggs? Temporal trends in Eastern Baltic cod fecundity (2004-2016)	Andrusaitis, A., Sirendi, M.: BONUS Innovation for the Baltic Sea research
16:30 – 16:45	Voroshilova, I., Ezhova, E., Kerckhof, F., Willing, M.J., Pavlova, V.: Genetic diversity of European invasive populations of <i>Rangia cuneata</i> (Bivalvia: Mactridae)	Eggert, A., Beck, A.J., Schlosser, C., van der Lee, E.M., Achterberg, E.P., Gledhill, M., Gräwe, U.: Transport and fate of toxic constituents of dumped munitions in the western Baltic Sea	Discussion of results from BONUS Innovation projects
16:45 – 17:00	Srèbaliënė, G., Olenin, S., Narščiū, A.: Assessing invasion potential of the non-indigenous species based on their expansion rate	Beck, A.J., Stamer, B., Gledhill, M., Schlosser, C., Achterberg, E.: Release, transport, and fate of explosive compounds (TNT, RDX, HMX) from discarded munitions in the Baltic Sea	
19:00	Congress Dinner, Restaurant Ratskeller Rostock (address: Neuer Markt 1, 18055 Rostock)		

09:00 – 09:45	Keynote:	Caroline Slomp	'Hypoxia in the Baltic Sea: causes and consequences',	Room 'Rostock'
09:45 – 10:00	Plenary lectures	Chair: Kai Myrberg Naumann, M., Feistel, S., Nausch, G., Ruth, T., Zabel, J., Plangg, M., Hannsson, M., Andersson, L., Lysiak-Pastuszek, E., Feistel, R., Nehring, D., Matthäus, W., Meier, H.E.M.:	Hypoxic to euxinic conditions in the Baltic Sea 1969-2016 – a seasonal to decadal spatial analysis	Room 'Rostock'
10:00 – 10:15		Liblik, T., Naumann, M., Hansson, P., Alenius, P., Lips, U., Nausch, G., Wesslander, K., Lips, I., Viktorsson, L.:	Impact of the recent Major Inflow on the water column structure in the NE Baltic	
10:15 – 10:30		Bauersachs, T., Lorbeer, N., Schwark, L.:	Climate change drives the formation of harmful cyanobacterial blooms in the Baltic Sea	
10:30 – 10:45		Schrum, C., Ho-Hagemann, H., Staneva, J., Rockel, B.:	A North Sea-Baltic Sea regional coupled model: atmosphere, wind waves and ocean	
10:45 – 11:15	☺	Coffee break		
	Crosscutting session: Monitoring / Observation / Assessment systems Session chair: Laura Tuomi		Session 3: Past and future changes Session chair: Inga Dailidienė	Session 4: Coastal seas and society Session chair: N.N.
	Room 'Wismar'		Room 'Demmin'	Room 'Rostock'
11:15 – 11:30	Heinrich, C., Reimers, H.-C., Schwarzer, K.: Assessing spatial distribution and state of marine benthic habitats in the SW Baltic – Operational seafloor mapping in context of the EU directives		Dudzińska-Nowak, J., Harff, J., Zhang, W., Groh, A., Deng, J.: Coastal morphogenesis of the southern Baltic Sea - modelling approaches and parameterisation	Savchuk, O.P.: Myths of the Baltic Sea eutrophication
11:30 – 11:45	Rikka, S., Kõuts, T., Pärt, S., Vahter, K.: High resolution TSM mapping of dredging operations using automated UAV activated by online <i>in situ</i> measurements: proof of concept		Hyttinen, O., Kotilainen, A.T., Obrochta, S., Andrén, T., Quintana-Krupinski, N., Jensen, J.B., Bennike, O., Lougheed, B., Wacker, L., Passchier, S., Snowball, I., Herrero-Bervera, E., Ryabchuk, D., Dorokhova, E.: Fennoscandian Ice Sheet deglacial dynamics in the Baltic Sea – North Atlantic transition area	Stoicescu, S.-T., Lips, U., Liblik, T.: Assessment of eutrophication status based on sub-halocline oxygen conditions in the Gulf of Finland (Baltic Sea)
11:45 – 12:00	Minchin, D., Olenin, S.: Rapid assessment surveys: a practical way to assess the abundance and distribution range of non-indigenous species		Kudryavtseva, N., Soomere, T.: Satellite altimetry shows changes in extreme wave heights over the Baltic Sea	Wasmund, N., Kownacka, J., Göbel, J., Jaanus, A., Johansen, M., Jurgensone, I., Lehtinen, S., Powilleit, M.: The "Diatom/Dinoflagellate index" as an indicator for the Marine Strategy Framework Directive
12:00 – 12:15	Tikka, K., Alenius, P., Tuomi, L.: Automatic classification of CTD profiles in the Baltic Sea		Pindsoo, K., Soomere, T.: Trends in the extreme water levels of the Baltic Sea	Telesh, I.: Biodiversity impact on ecological niche partitioning of native and invasive species in microplankton of the Baltic Sea
12:15 – 12:30	Stips, A., Bolding, K., Macias, D., Bruggeman, J., Eayris, C.: On the potential impact of SO ₂ deposition from vessel engine wash water on North Sea pH		Laakso, L., Mikkonen, S., Alenius, P., Drebs, A., Pirinen, P.: Trends of sea water column properties and meteorological variables based on more than 100 years of observations at Utö Island, Baltic Sea	Olenin, S., Minchin, D.: Marine invasive species indicators: implications for environmental assessment and management
12:30 – 12:45	Free time slot for discussions		Meier, H.E.M., Höglund, A., Eilola, K., Almroth-Rosell, E.: Impact of accelerated future global mean sea level rise on hypoxia in the Baltic Sea	Liu, T. K., Cheng, M. H.: Developing a risk assessment model for ballast water management utilising the analytical hierarchy process (AHP)

12:45 – 14:00	☺	Lunch break		
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09:00 – 09:45	Keynote:	Ragnar Elmgren	‘Remembering Fredrik Wulff – Baltic Sea ecosystem modeller, institution leader and creator of the Baltic Sea eutrophication management decision support system’	Room ‘Rostock’
09:45 – 10:30		Anna-Katharina Hornidge	‘Epistemic mobilities, sealevel rise and the contestation of the ocean-land borderline’	Room ‘Rostock’
10:30 – 11:00	Coffee break			
	Plenary lectures	Chair: Teresa Radziejewska		Room ‘Rostock’
11:00 – 11:15		Zandersen, M., Hyytiainen, K., Meier, H.E.M., Tomczak, M., Bauer, B., Haapasaari, P., Olesen, J.E., Gustafsson, B., Kosenius, A.K., Refsgaard, J.C., Fridell, E., et al.:	Using extended socio-economic scenarios to investigate drivers and pressures on the Baltic Sea up to 2100	
11:15 – 11:30		Myrberg, K., Korpinen, S., Uusitalo, L.:	How the Baltic Sea oceanography sets the scene for the implementation of the EU MSFD	
11:30 – 11:45		Chubarenko, I., Poterukhina, I., Bagaeva, M., Khatmullina, L., Isachenko, I., Nizhnikovskaya, O.:	Microplastics: pollutant with unknown transport properties	
11:45 – 12:00		Scholten, J., Kreuzburg, M., Hsu, Feng-Hsin, Schlüter, M., Rapaglia, J., Schubert, M.:	Submarine Groundwater discharge to the Eckernförde Bay, Baltic Sea: Towards a quantitative assessment	

12:00 – 13:15	Lunch break			
	Crosscutting session: Monitoring / Observation / Assessment systems Session chair: Urmas Lips Room ‘Wismar’		Session 3: Past and future changes Session chair: Helge Arz Room ‘Demmin’	Session 4: Coastal seas and society Session chair: Irina Chubarenko Room ‘Rostock’
13:15 – 13:30	Konik, M., Kowalewski, M., Darecki, M., Bradtke, K.: A novel approach to estimate information under cloud cover in the satellite images using numerical models		Vallius, H., Suuroja, S., Petersell, V., Alliksaar, T.: Sediment quality in Estonian western Gulf of Finland - with reference to the northern Gulf of Finland	Buer, A.-L., Wegener, P., Katarzyte, M., Lange, X., Schernewski, G.: Bathing Water Quality at the German Baltic coast: Long-term development, problems and challenges
13:30 – 13:45	Kratzer, S.: Distribution of suspended matter across the Baltic Sea		Kaiser, J., Belt, S.T., Tomczak, M., Brown, T.A., Wasmund, N., Häusler, K., Dellwig, O., Moros, M., Arz, H.W.: C25 highly branched isoprenoid alkenes as biomarkers and time-markers for the occurrence of the marine planktonic diatom <i>Pseudosolenia calcar-avis</i> in the Baltic Sea and the Black Sea	Schernewski, G. et al.: Beach macro-litter on southern Baltic beaches
13:45 – 14:00	Lorkowski, I., Schwichtenberg, F., Janssen, F., Brüning, T., Neumann, D., Neumann, T., NERGER, L., Matthias, V.: Towards an operational biogeochemical model system to support the Marine Strategy Framework Directive reporting		André, E., Telford, R.J., Jonsson, P.: Reconstructing the history of coastal eutrophication and quantifying total nitrogen reference conditions in Bothnian Sea coastal waters	Gebhardt, C.: Selective feeding of <i>Arenicola marina</i> influences distribution and burial of microplastic particles in marine sediments
14:00 – 14:15	Placke, M., Meier, H.E.M., Neumann, T., Gräwe, U.: Assessment of state-of-the-art Baltic Sea models and their setups for usage in climate applications		Ahlgren, J., Grimvall, A., Omstedt, A., Rolff, C., Wikner, J.: Temperature, DOC level and basin interactions explain the declining oxygen concentrations in the Bothnian Sea	Kesy, K., Oberbeckmann, S., Müller, F., Klaeger, F., Hentzsch, A., Mothes, S., Labrenz, M.: The fate and stability of bacterial biofilms on microplastics after passing the gut of invertebrates living in the Baltic Sea

14:15 – 15:00	Coffee + Closing Congress			
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Trophic interactions and ecosystem function

(Room Stralsund)

Authors	Title	No.
Künnis-Beres, K.	Microbial loop annual variability through the water column gradients in the middle of the Gulf of Finland	P1
Umgiesser, G., Čerkasova, N., Erturk, A., Mězině, J., Razinkovas-Baziukas, A., Kataržytė, M.	Decay modeling of <i>E. coli</i> /bacteria in a shallow lagoon	P2
Loick-Wilde, N., Bombar, D., Doan, H. N., Nguyen-Ngoc, L., Nguyen-Thi, A. M., Voss, M., Dippner, J.W.	Micro-plankton biomass and diversity in the Vietnamese upwelling area during SW Monsoon under normal conditions and after an ENSO event	P3
Haraguchi, L., Asmla, E., Jakobsen, H., Carstensen, J.	Natural phytoplankton communities as a source for dissolved organic matter and implications for carbon cycling in Roskilde Fjord, Denmark	P4
Jakobsen, H.H., Hansen, J.L.S., Carstensen, J.	Phytoplankton diversity in Danish estuaries	P5
Smirnova, M., Ezhova, E., Voyakina, E.	Seasonal succession of cyanobacteria in the littoral of hypertrophic Curonian lagoon and it's driving forces	P6
Braun, P., Schulz-Vogt, H., Siebers, M., Dörmann, P., Nausch, M.	Cellular mechanisms of phosphorus regulation in filamentous cyanobacteria	P7
Cieszyńska, A., Śliwińska-Wilczewska, S., Stramska, M.	Baltic filamentous cyanobacteria and picocyanobacteria growth characteristics at different environmental conditions simulated in laboratory experiments	P8
Berthold, M., Karsten, U., von Weber, M., Albrecht, M., Schumann, R.	Is there a way back? Possible development of coastal water bodies during re-mesotrophication	P9
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Directions:

By car:

From Berlin via A19, B105, Warnow Tunnel (toll), take first exit 'HanseMesse', follow the parking-guidance system to the HanseMesse.

From Hamburg via A20 and west approach road (B103), follow parking-guidance system to the HanseMesse.

By ferry:

From Scandinavia via international port, B105, Warnow Tunnel (toll), take first exit 'HanseMesse', follow the parking-guidance system to the HanseMesse.

By train:

From Rostock main station with commuter railway system/S-Bahn (towards Warnemünde) to station Lütten Klein (approx. 5 min.).

By aeroplane:

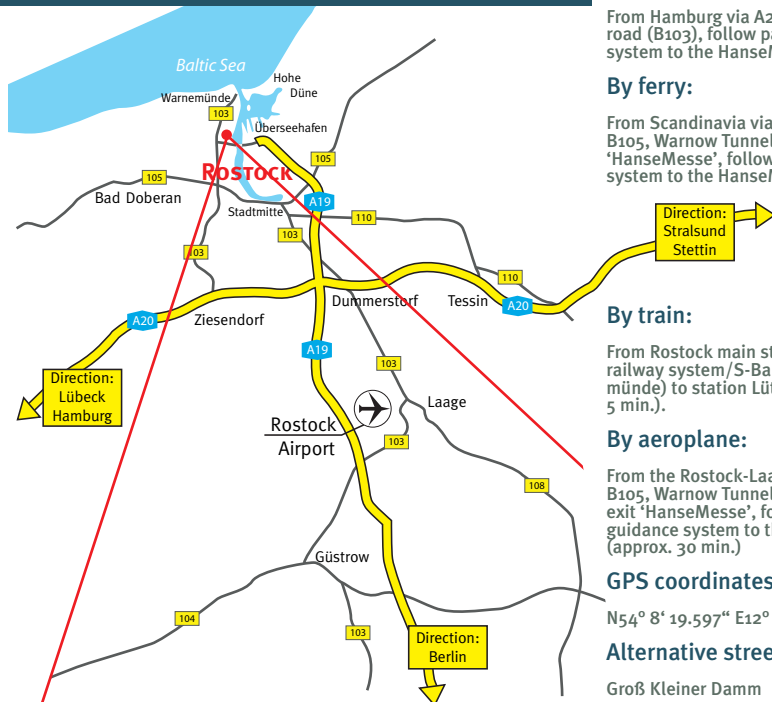
From the Rostock-Laage Airport via A19, B105, Warnow Tunnel (toll), take the first exit 'HanseMesse', follow the parking-guidance system to the 'HanseMesse'. (approx. 30 min.)

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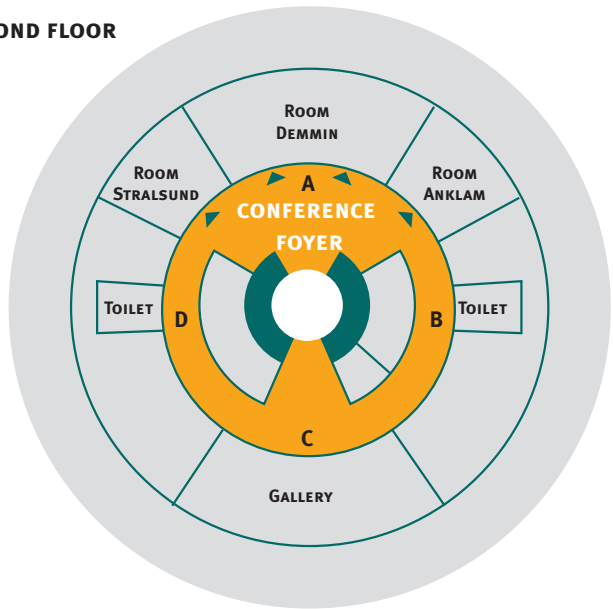
N54° 8' 19.597" E12° 4' 34.846"

Alternative street:

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