

**BONUS****BIO-C3**

BONUS BIO-C3 mini-symposium
„Biodiversity changes – causes, consequences and management implications“

GEOMAR Large conference room, Tuesday, June 27 9:00 – 19:00

Participants: BIO-C3 team; open to external participants

9:00–9:15	Welcome, opening of BIO-C3 annual meeting (Thorsten Reusch, Jan Dierking) Housekeeping
<i>Format: Each BIO-C3 work package (WP) will be introduced in a 5 minute presentation, followed by scientific presentations (10 min. + 5 min. discussion) on recent output from the WP.</i>	
9:15–10:15	Science from BIO-C3 WP1 – „Genetic adaptation and eco-physiology“ (Introduction Thorsten Reusch) <ul style="list-style-type: none"> • The round goby story. Kristiina Nurkse & Henn Ojaveer (Task 1.2) • Local adaptations to temperature and salinity conditions of the Baltic Sea copepod <i>Eurythemora affinis</i>. Konrad Karlsson and Monika Winder (Task 1.3) • Cod and ocean acidification: direct and transgenerational effects. Felix Mittermayer et al. (Task 1.2, 1.3)
10:15-10:45	Coffee break
10:45-12:45	Science from BIO-C3 WP2 – „Food webs under changing biodiversity“ (Introduction Axel Temming) <ul style="list-style-type: none"> • Phytoplankton food quality along the salinity gradient. Monika Winder, Jacob Carstensen, Aaron W. E. Galloway, Hans H. Jakobsen, James E. Cloern (Task 2.1) • Another critical period: Physiological limits determine recruitment success during the post-larval stage of a temperate clupeid (<i>Sprattus sprattus</i> L.). Claudia Günther, Jens-Peter Herrmann, Rini Kulke, Laura Meskendahl, Matthias Paulsen, Catriona Clemmesen and Axel Temming (Task 2.1) • Impact of fish larvae on zooplankton in the Vistula Lagoon to estimate feeding selectivity of larvae and potential predation effects on the zooplankton community. Anna Vaniala and Piotr Margonski (Task 2.2) • Patterns in depth-specific distribution and food intake of cod in the western Baltic Sea. Steffen Funk et al. (Task 2.2) • The importance of benthic-pelagic coupling for marine ecosystem functioning in a changing world. J.R. Griffith, M. Kadin, F.J.A. Nascimento, T. Tamelander, A. Törnroos, S. Bonaglia, E. Bonsdorff, V. Brüchert, A. Gårdmark, M. Järnström, J. Kotta, M. Lindegren, M.C. Nordström, A. Norkko, J. Olsson, B. Weigel, R. Žydelis, T. Blenckner, S. Niiranen, M. Winder (Task 2.2) • Ocean current connectivity propelling secondary spread of a marine invader across western Eurasia. Cornelia Jaspers et al. (Task 2.3) • Role of an invasive mud crab in the Northern Baltic Sea coastal food web. Riikka Puntila, Katariina Riipinen, Olli Loisa and Maiju Lehtiniemi (Task 2.3)

12:45-13:45	Lunch (buffet in front of large conf. room)
13:45-15:30	<p>Science from BIO-C3 WP3 – „Natural and anthropogenic drivers of biodiversity“ (Introduction Helen Andersson)</p> <ul style="list-style-type: none"> • Spatio-temporal changes in nutrient concentrations in the Baltic Sea between 1970 and 2010. Henrik Skov (Task 3.1) • Drivers and pressures – untangling the terms commonly used in marine science and policy. Daniel Oesterwind et al. (Task 3.1) • Historical and current pattern of non-indigenous species (NIS) in the Baltic Sea. Henn Ojaveer et al. (Task 3.2) • High climate velocity and population fragmentation may constrain range shift of the key habitat former <i>Fucus vesiculosus</i>. Per Jonsson, Jonne Kotta, Helén Andersson (Task 3.3) • Small-scale metastability in a coastal ecosystem of the Baltic Sea. Henrik Skov and Erik Kock Rasmussen (Task 3.4) • Potential habitat change in the Baltic Sea – implications of climate change and nutrient-load scenarios on the future marine environment. Irene Wåhlström et al. (Task 3.4)
15:30-16:00	Coffee break
16:00-17:30	<p>Science from BIO-C3 WP4 – „Impacts of changing biodiversity on ecosystem functioning“ (Introduction Brian MacKenzie)</p> <ul style="list-style-type: none"> • Long-term functional trait dynamics across trophic levels. Anna Törnroos et al. (Task 4.1) • Long-term changes in zooplankton abundance and community structure in the southern Baltic Sea: response to various environmental stressors. Piotr Margonski and Joanna Calkiewicz (Task 4.1) • The story of the thin Baltic cod. Stefan Neuenfelt, Brian MacKenzie et al. (Task 4.2) • Seal-fisheries interactions in the Baltic Sea: past and future. David Costalago, Barbara Bauer, Maciej Tomczak, Monika Winder (Task 4.3) • Modelling future reproductive habitat for selected key species in Baltic foodwebs. Brian MacKenzie (Task 4.3)
17:30-17:45	Coffee break
17:45-19:00	<p>Science from BIO-C3 WP5 – „Biodiversity indicators and tools for adaptive management“ (Introduction Piotr Margonski)</p> <ul style="list-style-type: none"> • Overview of biodiversity indicators applied or considered for application in the Baltic Sea. Anastasija Zaiko (Task 5.1) • Past and future covariance patterns among Baltic Sea coastal ecosystem indicators — impacts on MPAs. Henrik Skov et al. (Task 5.2) • Connectivity between MPAs in the Riga Bay area. Anne Lise Middelboe et al. (Task 5.2) • Proposal for an integrated HELCOM NIS monitoring programme. S. Olenin, M. Lehtiniemi and H. Ojaveer (Task 5.3)
	End of mini-symposium