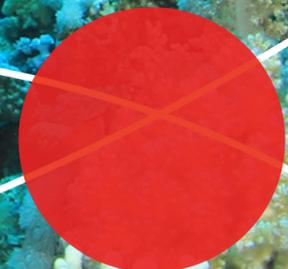
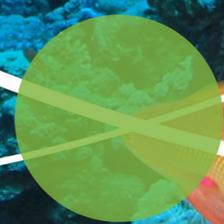
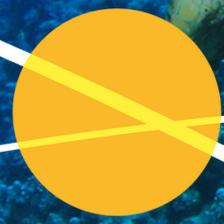
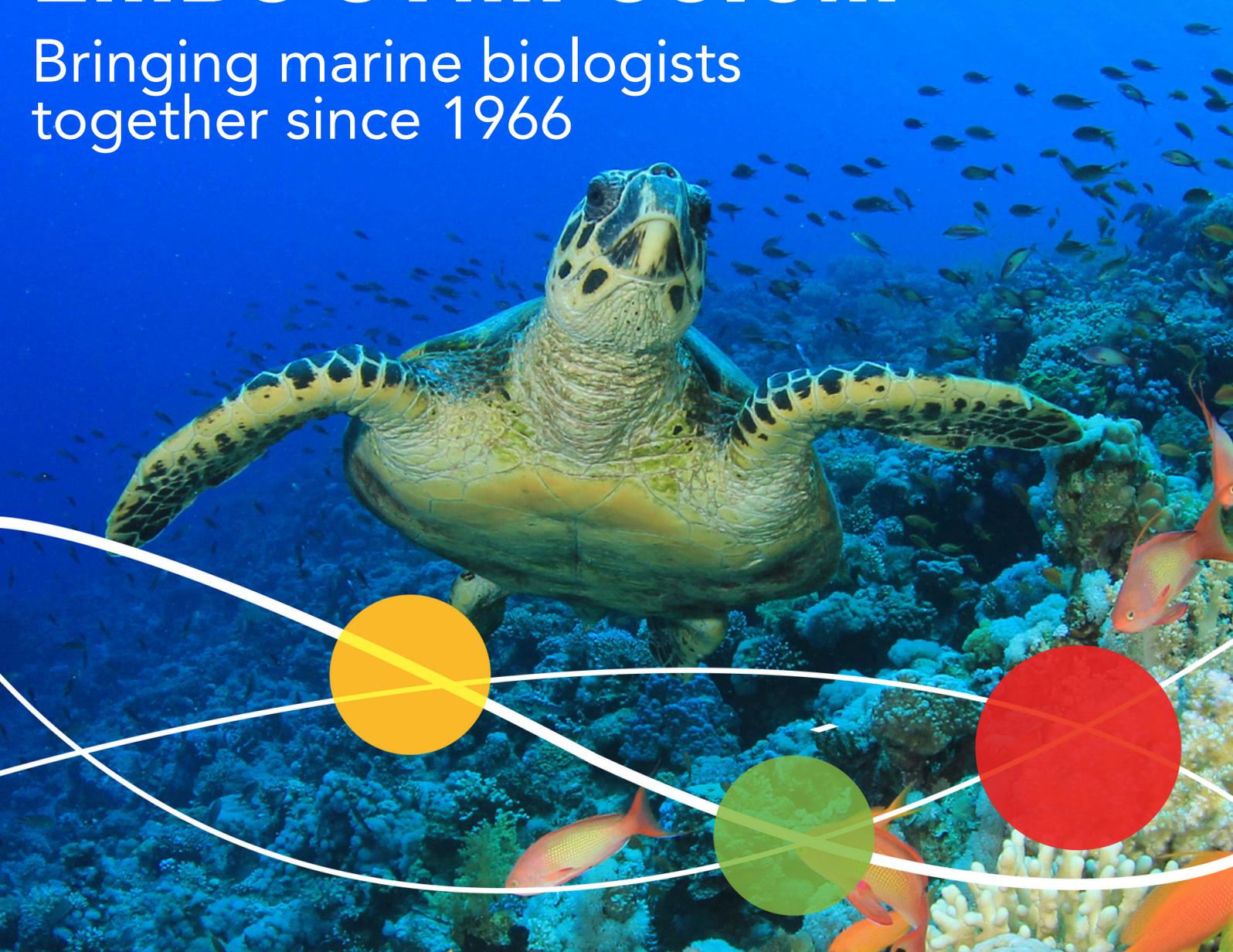


58TH
BODO, JULY 06-09, 2025

EMBS
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BODØ, JULY 06-09, 2025

Programme

6th July 2025

- 12:00-13:00 Arrival & Registration of participants
- 13:00-13:30 **Opening Ceremony**
Jarle Jørgensen, Director of the Faculty of Biosciences and Aquaculture, Nord University
Mark Costello, 58th EMBS Convenor and EMBS President
- 13:30-14:10 **Daniel Pauly**
The Gill-Oxygen Limitation Theory (GOLT): principle and recent developments
- 14:10-14:20 1 **Filippomaria Cassarino**
How do warming and fishing affect fish communities' functional diversity
- 14:20-14:30 2 **Chhaya Chaudhary**
Life-cycle bottlenecks shape global marine biodiversity shifts under climate warming
- 14:30-14:40 3 **Giovanna Guadagnin**
Climatic cues and coastal crabs: adapting to a changing world
- 14:40-14:50 4 **Inge van der Knaap**
Small and large-scale fish migration along the southern Norwegian coast in relation to marine spatial planning and development
- 14:50-15:00 5 **Silas Principe**
Predicting marine species distribution in Europe to support conservation targets
- 15:00-15:10 6 **Jan Phillipp Geißel**
Larval phenology and thermal tolerance as predictor of range expansions
- 15:10- 15:20 **Questions and Answers**
- 15:20-16:00 **Afternoon Break**

Session Chair: Simonetta Fraschetti

- 16:00-16:10 **7 Osvaldo Tascón**
How do thermal variability and nutrient availability shape phytoplankton communities?
- 16:10-16:20 **8 Anna Ikonen**
Shifting fatty acid profiles of diatoms adapting to progressing warming
- 16:20-16:30 **9 Alexandra Hahn**
Transcriptomic and physiological evidence of local adaptation in a Baltic copepod
- 16:30-16:40 **10 Jonathan Tempesti**
Fouling and non-indigenous species in Western Mediterranean ports: patterns and drivers
- 16:40-16:50 **11 Norman Göbeler**
Hotfloor: A novel heating system to investigate the effect of heatwaves on benthic ecosystems
- 16:50-17:00 **12 Marco Anglano**
Seasonal cycle of mesozooplankton communities in two coastal sites with different depth in Tenerife, Canary Islands
- 17:00- 17:10 **Questions and Answers**

17:10-19:00 Welcome reception

19:00-20:30 Screening of "Ocean with David Attenborough"

7th July 2025

08:30 - 09:00 Registration opens

09:00 - 09:40 Nuria Teixido
Resilience of coastal benthic biodiversity under global environmental change

Session Chair: Stelios Katsanevakis

Session Chair: Lauriane Ribas-Deulofeu

- 09:40- 09:50 **13.1 David Gillett**
Changes in infaunal macrobenthos of the Southern California continental margin over five decades
- 09:50- 10:00 **14.1 Arianna Pansini**
Cymodocea nodosa can take advantage of predicted acidification
- 10:00- 10:10 **15.1 Camilla Della Torre**
Tolerance to ocean acidification in the limpet *Patella caerulea* from CO₂ vents of Ischia
- 10:10- 10:20 **16.1 Marco Munari**
Acidification effects on contaminants & One Health risks at volcanic CO₂ vents
- 10:20-10:30 **Questions and Answers**
- 13.2 Ovidiu Popa**
AI on Deck: Enhancing Ocean Observations through high-resolution zooplankton analysis
- 14.2 Inga Kirstein**
Plankton communities today & tomorrow – global change drivers and marine heatwaves in a mesocosm
- 15.2 Sünnje Linnéa Basedow**
The impact of advection on a subarctic fjord food web dominated by the copepod *Calanus finmarchicus*
- 16.2 Ellen Oldenburg**
Beyond blooms: winter ecosystem reset determines microbial community dynamics

10:30 - 11:00 Morning Break

Session Chair: Barbara Horta e Costa

Session Chair: Thanos Dailianis

- 11:00-11:10 **17.1 Natalie Vachon**
Spatial variation in carbon source use and functional diversity around Qikiqtait, Nunavut
- 11:10-11:20 **18.1 Tiziana Durazzano**
Depth-distributed zooplankton functional diversity related to vertical carbon export in the Central Arctic Ocean
- 11:20-11:30 **19.1 Janina Pykäre**
Carbon stocks and diversity in benthic macroinvertebrates across environmental gradients
- 11:30-11:40 **20.1 Méliane Deshaies**
Carbon storage, dynamics and budgets sea cucumber *Cucumaria frondosa*
- 11:40-11:50 **21.1 Anaïs Richard**
Beach wrack and greenhouse gas emissions in Baltic coastal ecosystems
- 11:50-12:00 **Questions and Answers**
- 12:00-12:10 **22.1 Sahed Ahmed Palash**
Effects of warming on mesozooplankton in the Elbe estuary: a summer mesocosm experiment
- 12:10-12:20 **23.1 Kirsty Morris**
Temporal health variation in Irish *Mytilus* in relation to SST
- 12:20-12:30 **24.1 Cristina Sánchez Jiménez**
Effects of heatwaves on juvenile clam's biology and behaviour
- 12:30-12:40 **25.1 Tjitske Kooistra**
Heat wave resilience of a mud-loving clam in different habitats
- 12:40-12:50 **26.1 Marie Fouet**
Heatwaves exacerbate the impacts of invasive species in intertidal flats
- 12:50-13:00 **Questions and Answers**
- 17.2 **Henriette Horn**
Evaluating plankton diversity with a new Atlantic-wide database: the Benguela case study
- 18.2 **Florian Lüsow**
Pelagic tunicate assemblages along two latitudinal transects across the Sargasso Sea in spring 2023
- 19.2 **Janja Francé**
Environmental status of pelagic habitats: lessons from phytoplankton case studies
- 20.2 **Marco Thines**
Diversity of marine oomycete parasites of marine primary producers and the zoospore loop
- 21.2 **Moritz Nusser**
Does bioturbation impact methane ebullition from soft marine sediments?
- 22.2 **D K A Barnes**
Fundamental relationships between iceberg disturbance and seabed spatial competition
- 23.2 **Carolyn Uhlir**
A decade apart - comparison of benthic communities in the deep central Arctic Ocean
- 24.2 **Marie Elisabeth Kaufmann**
Macrobenthic diversity and distribution in the Beagle Channel region
- 25.2 **Jorien Rippen**
Habitat heterogeneity shapes marine biodiversity along a sea-dike
- 26.2 **Kristjan Herkül**
Distribution, co-occurrence and niche of charophytes and angiosperms in the northern Baltic Sea

13:00-14:00 Lunch Break

14:00-14:40 Britas Klemens Eriksson

Using bioacoustics to uncover data deficient underwater ecosystems

Session Chair: Silas Principe

Session Chair: Marco Munari

14:40-14:50 **27.1 Siti Nurtahirah Ja' Afar**
Redox proteomics of *Acropora digitifera*: protein thiol dynamics and thermal stress adaptation

27.2 Daniela Yepsen
Juvenile hake *Merluccius gayi gayi* hotspots and overlap with the bottom trawl fleet in Chile

14:50-15:00 **28.1 Lucia Gastoldi**
Temperature and phosphate effects on coral photo-metabolism

28.2 Soraia Vieira
Food web attributes to assess estuarine benthic ecosystem

15:00-15:10 **29.1 Cédric Meunier**
influence of temperature and nutrient availability on plant-ectotherm trophic interactions

29.2 Adeline Tauran
Impact of environmental changes on coastal subtidal macrozoobenthic communities' evolution

15:10-15:20 **30.1 Brenda Walles**
The impact of marine heatwaves on European flat oysters from different origins

30.2 Constantinos Varotsis
Marine diatoms in the presence of microplastics, nanoplastics and isotopes of ¹³C and ¹⁵N

15:20-15:30 **Questions and Answers**

15:30-16:00 Afternoon Break

16:00-16:10 **31.1 Francesco Fabiano**
Microbiome dynamics in sponge aquaculture: wild and integrated fish farm cultivation

31.2 Geraldina Signa
Unveiling loggerhead sea turtle diet and foraging areas in the Mediterranean Sea

16:10-16:20 **32.1 Nicole Jahnsen**
Effects of artificial light pollution on the commercial bivalve *Mytilus chilensis*

32.2 Danny Buss
Foraging preferences of North Atlantic right whale and fin whale using archaeological and museum specimens

16:20-16:30 **33.1 Margherita Burini**
Effects of multiple stressors on Grado lagoon ecosystem functioning

33.2 William Mills
Ecological and conservation implications of a declining fur seal population for giant petrels

16:30-16:40 **34.1 Iryna Kapshyna**
Meiofauna sandy-beach communities reflect grain-size change after human impact

34.2 Elisa Arroyo Martínez
Ontogenetic distribution of elasmobranch species in the ISRA Murcia Pockmarks

16:40-16:50 **35.1 Virginia Menicagli**
Emerging contaminants effects on seagrass *Cymodocea nodosa*

35.2 Andreja Ramšak
Mussel culture – an ecosystem service under threat

16:50-17:00 **Questions and Answers**

19:30-21:00 Conference Dinner

09:00-09:40 **Cornelia Jaspers**

Global change impacts on marine ecosystems: do gelatinous zooplankton traits facilitate jellyfish blooms in the ocean of tomorrow?

Session Chair: Jukka-Pekka Verta

09:40- 09:50

36 Ana Azevedo

Modelling habitat suitability of *Posidonia oceanica* in a changing ocean

09:50-10:00

37 Isabella Provera

Transcriptional memory in *Posidonia oceanica* seedlings: persistence and role in heat stress responses

10:00-10:10

38 Fabio Blanco Murillo

Unravelling the effect of marine heat waves on seagrass belowground

10:10-10:20

39 Stefanie Ries

Seascape genomics of Scandinavian eelgrass: implications for conservation

10:20-10:30

Questions and Answers

10:30-11:00 Morning Break

Session Chair: Jukka-Pekka Verta

Session Chair: Mathieu Cusson

11:00-11:10

40.1 Patrizia Stipcich

Seagrass leaf bleaching: does it affect the plant photoprotective mechanisms?

40.2 Alberto Serrano

Antarctic benthic habitats using non-destructive methods

11:10-11:20

41.1 Laura Steeves

Biodiversity in northern European seagrass meadows: spatial and temporal trends

41.2 Martina Orlando-Bonaca

Benthic vegetation distribution in the northern Adriatic: present and future

11:20-11:30

42.1 Elisabeth Juliussen

Changes in eelgrass fish community across a spatial gradient

42.2 Valentina Lauria

Finding the surviving spots of the endangered bamboo coral *Isidella elongata* in the central Mediterranean

11:30-11:40

43.1 Johan Severinson

Biodiversity impacts of ecosystem shift from seagrass to drift algae

43.2 Alice Premici

Deep sea fauna associated with cold water corals of Bari Canyon, Southern Adriatic Sea

11:40-11:50

44.1 Cristina Galván

Satellite-based assessment of seagrass habitat functions for ecosystem management

44.2 Domen Trkov

Pinna nobilis shells as key elements in the environment for coastal fish community

11:50-12:00

Questions and Answers

12:00-12:10 **45.1 Leo Minini**
Deciphering the genetic basis of growth and heat tolerance in sugar kelp

12:10-12:20 **46.1 Elvira Ramos**
Macroalgal communities: impact of climate change on species near their tolerance limits

12:20-12:30 **47.1 Alexander Jueterbock**
The application of thermal priming for kelp farming and restoration

12:30-12:40 **48.1 Nina Larissa Arroyo**
Status of kelp forests in Spanish and Portuguese waters

12:40-12:50 **49.1 Ralf Rauten-berger**
Ecotypic salinity adaptation of *Saccharina latissima* from Skjerstadfjorden

12:50-13:00 **Questions and Answers**

45.2 Ana Fortič
Empty *Pinna nobilis* shells: refuge for mobile macroinvertebrates

46.2 Louisa Alina Schulz
The distribution and population structure of the quahog, *Arctica islandica* in the German Baltic Sea

47.2 Hafiz Borkha-nuddin
Temporal dynamics of reef invertebrates in Pulau Bidong and Pulau Yu, Terengganu: recovery and resilience

48.2 Piergiorgio Massa
From ancient genomes to modern conservation in Atlantic bluefin tuna

49.2 Olena Uzun
Large-scale biodiversity assessment of Antarctic meiofauna using multi-gene DNA

13:00-14:00 Lunch Break

Session Chair: Mathieu Cusson

Session Chair: Stelios Katsanevakis

14:00-14:10 **50.1 Arne Berre**
Digital Twins of the Ocean for monitoring and management of marine biodiversity

14:10-14:20 **51.1 Nicolas Bill**
BRUVS compared to eDNA and Trawls in the German Bight

14:20-14:30 **52.1 Roxana Preston**
Developing genetic diversity estimates for charophytes in the Baltic Sea

14:30-14:40 **Questions and Answers**

14:40-14:50 **53.1 David Poling**
Computer vision for semi-supervised counting of fish in underwater video

50.2 Cesar Bordehore
Fisheries modelling: a new approach to maximising profits and landings

51.2 Bríd O'Connor
Sensitivity analysis of fish species in the Northeast Atlantic

52.2 Sara D'Ambros Burchio
An integrative framework for addressing taxonomic challenges in *Cystoseira*

53.2 Stelios Katsanevakis
Harnessing advanced technologies for monitoring and managing aquatic invasive species in European waters

- 14:50-15:00 **54.1 Juan José Ortiz García**
Otoliths vs eye lenses, parallel histories from different growth structures
- 14:50-15:00 **54.2 Guillaume Marchessaux**
Invasion of the blue crab *Callinectes sapidus*
- 15:00-15:10 **55.1 Mathilde Horaud**
Allochryony in Atlantic lumpfish: genomic and otolith shape in spring and autumn spawners
- 15:00-15:10 **55.2 Stefano Varrella**
Can multi-marker eDNA replace classical approaches for alien species detection?
- 15:10-15:20 **56.1 Chiara Papetti**
Monitoring Weddell Sea biodiversity using Antarctic fish as proxies for connectivity
- 15:10-15:20 **56.2 Lisa Sandri**
Macrobenthic biodiversity and functional patterns in three Adriatic marinas
- 15:20-15:30 **Questions and Answers**

15:30-16:00 Afternoon Break

Session Chair: Inga Kirstein

- 16:00-16:10 **57 Karolina Jonko-Sobuś**
Infrared spectroscopy: uses in marine biology data collection
- 16:10-16:20 **58 Ana Lokovšek**
Microalgal-derived biostimulants as a novel strategy for restoration of *Cystoseira*
- 16:20-16:30 **59 Paolo Cappa**
SMART drumlines reduce wildlife mortality in shark management programs
- 16:30-16:40 **60 Inma Herrera**
Long-term assessment of whale-watching trends in the proposed National Park of Guguy (Canary Islands)
- 16:40-16:50 **Questions and Answers**
- 16:50-17:00 **61 Mathieu Cusson**
From scour to recovery: macroalgal resilience in ice-disturbed coastal ecosystems
- 17:00-17:10 **62 Borut Mavric**
The circalittoral epibenthic communities in the Northern Adriatic Sea; A novel surveying methodology
- 17:10-17:20 **63 Jasmin S Mueller**
Insights into small-scale dynamics of intertidal and subtidal soft-bottom infauna
- 17:20-17:30 **64 Yuthika Jalim**
Diet and trophic position of *Cucumaria frondosa* and *Mytilus edulis* across populations from eastern and northern Canada
- 17:30-17:40 **Questions and Answers**

18:00-20:00 **Poster Session / Screening of documentary "Sea of Marmara" / Yellow Submarine Quiz**

9th July 2025

09:00-09:40 Simonetta Frascetti

Restoring marine ecosystems: key achievements and future challenges

Session Chair: Eirini Apazoglou

09:40-09:50

65 Marina Prieto-Amador

Temporal and spatial analysis of El Cachucho MPA effects

09:50-10:00

66 Jesús Padrón García

Guguy, a key marine area for a National Park proposal

10:00-10:10

67 Christian Nilsson

Depth Learning – using Digital Twin of the Ocean resources to uncover ecological trends in a Swedish MPA

10:10-10:20

68 Kaja Balazy

Zooplankton for understanding Arctic change: perspectives from seabird diets

10:20-10:30

Questions and Answers

10:30-11:00 Morning Break

11:00-11:10

69 Nur Eda Topçu Eryalçın

Assessing coralligenous habitats in an Aegean MPA (Eastern Mediterranean)

11:10-11:20

70 Paolo Comandini

Salt marsh restoration in the Venice Lagoon: barriers and enablers

11:20-11:30

71 Barbara Horta e Costa

Social attributes are key to global marine fishers' vulnerability to climate change

11:30-11:40

72 Qianshuo Zhao

Prioritisation analysis for biodiversity conservation in the West Pacific

11:40-11:50

73 Anna Maria Addamo

Systematic conservation planning of MPAs for a science-based MSP

11:50-12:00

Questions and Answers

12:00-12:30 Closing Ceremony

15:45-18:30 Excursion Arctic Coastal Walk near Bodø