

## Theme session D

New approaches to measure and assess biodiversity

Conveners: W. Nikolaus Probst (Germany), Oscar Bos (the Netherlands), and Simon P. R. Greenstreet (UK)

Monday 21 September, 15:00–18:30, Sankt Hans Torv

Tuesday 22 September, 10:00–11:30, Sankt Hans Torv

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### Monday 21 September

**15:00**    **Opening and introduction**  
**Appointment of rapporteur**  
**Presentation of papers**

**15:05**    **CM code:** D:02 Oral

**Title:** Hill's diversity: a general framework to address marine biodiversity management issues

**Authors:** Gregoire Certain and Benjamin Planque

**Keywords:** general framework, species diversity, measure, assessment, baseline, vulnerability, alpha and beta diversity

**15:20**    **CM code:** D:05 Oral

**Title:** Empirical relationships in species abundance relationships

**Author:** Heino O. Fock

**Keywords:** log-series, zero-sum multinomial, deep-sea, shelf sea

**15:35**    **CM code:** D:08 Oral

**Title:** Understanding diversity shifts by characterising the community

**Authors:** Jonatan Fredricson and Mark R. Payne

**Keywords:** climate change, North Sea, biodiversity, thermal preference, species richness

**15:50**    **CM code:** D:17 Oral

**Title:** The use of benthic biodiversity indicators: pros and cons

**Authors:** Gert Van Hoey, Wendy Bonne, Annelis De Backer, Lisa Devriese, and Kris Hostens

**Keywords:** benthic indicators, biodiversity, human impact, rambo genetic tools

**16:05**    **CM code:** D:10 Oral

**Title:** Quantifying the value of biodiversity lost or preserved in environmental management

**Authors:** Mirka Laurila-Pant, Annukka Lehikoinen, Laura Uusitalo, and Riikka Venesjärvi

**Keywords:** biodiversity, ecosystem-based management, decision analysis

**16:20**    **CM code:** D:04 Oral

**Title:** Catalogue of marine biodiversity indicators to assess the environmental status – a software and a review of the current indicator set

**Authors:** Heliana Teixeira, T. Berg, K. Fürhaupter, L. Uusitalo, *et al.*

**Keywords:** MSFD, non-indigenous species, foodwebs, seafloor integrity, pressures, regional seas

**16:35**    **CM code:** D:13 Oral

**Title:** Assessing the transferability of biodiversity models

**Authors:** K. L. Yates, J. J. Meeuwig, C. Mellin, B. T. Radford, and M. J. Caley

**Keywords:** biodiversity, distribution modelling, remote sensing, transferability

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<b>16:50</b>	<b>CM code:</b> D:18 Oral <b>Title:</b> Mapping biodiversity indicators to balance European policy requirements: a practical perspective <b>Authors:</b> Henrike Rambo and Vanessa Stelzenmüller <b>Keywords:</b> biodiversity indicators, spatial modelling, marine spatial planning, MSFD, demersal finfish
<b>17:05</b>	<b>CM code:</b> D:01 Oral <b>Title:</b> A diversity of food webs in the Barents Sea <b>Authors:</b> Pierre Olivier and Benjamin Planque <b>Keywords:</b> aggregation, connectance, ecosystem, food web topology, network, trophic interactions
<b>17:20</b>	<b>CM code:</b> D:14 Oral <b>Withdrawn</b>
<b>17:35</b>	<b>CM code:</b> D:03 Oral <b>Title:</b> Diversity, distinctness and distribution of krill in the Indian Ocean <b>Authors:</b> Alicia Sutton and Lynnath E. Beckley <b>Keywords:</b> <i>Euphausiid</i> , zoogeography, Indian, species richness, presence/absence, temperature, surface chlorophyll
<b>17:50</b>	<b>CM code:</b> D:16 Oral <b>Title:</b> Time-series analysis of winter zooplankton in the English Channel: biodiversity, size diversity and trophic interaction <b>Authors:</b> Tim Dudeck, Marc Hufnagl, Norbert Rohlf, and Christian Möllmann <b>Keywords:</b> size diversity, zooplankton, normalized biomass size-spectrum, Zooscan, long-term timeseries analysis
<b>18:05</b>	<b>CM code:</b> D:19 Oral <b>Title:</b> Spatial, bathymetrical and size distribution of deep unexpected well preserved Mediterranean gorgonian assemblages (Menorca Channel, Western Mediterranean Sea) <b>Authors:</b> Jordi Grinyó, Andrea Gori, Stefano Ambroso, Ariadna Purroy, Clara Calatayud, Carlos Domínguez-Carrió, Martina Coppari, Claudio Lolocono, Pablo J. López-González, and Josep-Maria Gili <b>Keywords:</b> gorgonian assemblages, demography
<b>18:20</b>	<b>Discussion</b>
<b>18:30</b>	<b>End of day</b>

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## Tuesday 22 September

<b>10:00</b>	<b>CM code:</b> D:15 Oral <b>Title:</b> Biodiversity hot spots and gradients on a summer transect across the North Sea <b>Authors:</b> Marc Hufnagl, K. Borkenhagen, T. Dudeck, A. Eckardt, J. Floeter, D. Gloe, N. Guse, K. Hänselmann, S. Janßen, K. O. Möller, J. van Beusekom, B. Walter, and C. Möllmann <b>Keywords:</b> biodiversity, zooplankton, fish, birds, mammals, Triaxus, high resolution
<b>10:15</b>	<b>CM code:</b> D:09 Oral <b>Title:</b> Environmental filtering drives functional diversity of fish assemblages in a temperate brackish system <b>Authors:</b> Laurene Pécuchet, A. Törnroos, and M. Lindegren <b>Keywords:</b> traits, demersal fish, Baltic Sea, assembly rule, community, abiotic, functional richness, species richness, functional dissimilarity, biodiversity

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<b>10:30</b>	<b>CM code:</b> D:11 Oral <b>Title:</b> The comparison of the approaches to the assessment of biodiversity and water quality in south-eastern part of the Baltic sea <b>Authors:</b> Olga Dmitrieva, A. Semenowa, A. Gusev, L. Rudinskaya, and K. Podgornyj <b>Keywords:</b> Baltic Sea, water quality, phytoplankton, zooplankton, zoobenthos
<b>10:45</b>	<b>CM code:</b> D:12 Oral <b>Title:</b> Anthropogenic impact in estuarine bacterioplankton diversity <b>Authors:</b> Mikel Aguirre, I. Zarraonaindia, David Abad, Aitor Albaina, Nestor Etxebarria, M. S. Goñi-Urriza, and Andone Estonba <b>Keywords:</b> metagenomics, estuary, bacterioplankton, pollution
<b>11:00</b>	<b>CM code:</b> D:06 Oral <b>Title:</b> Assessing biofouling community succession using a metabarcoding approach <b>Authors:</b> Anastasija Zaiko, Xavier Pochon, Kate Schimanski, Grant A. Hopkins, and Susanna A. Wood <b>Keywords:</b> biofouling, metabarcoding, high-throughput sequencing, non-indigenous species
<b>11:15</b>	<b>CM code:</b> D:20 Poster <b>Title:</b> Biodiversity baseline for large marine ecosystems: an example from the Barents Sea <b>Authors:</b> Gregoire Certain and Benjamin Planque <b>Keywords:</b> Barents Sea, fish community, biodiversity, baseline, alpha and beta diversity
	<b>CM code:</b> D:21 Poster <b>Withdrawn</b>
<b>11:17</b>	<b>CM code:</b> D:22 Poster <b>Title:</b> Environmental sequencing and metagenetic analysis of zooplankton diversity: applications for monitoring seasonal and regional variation of the pelagic assemblage of the NW Atlantic continental shelf <b>Authors:</b> Leocadio Blanco-Bercial, Kayla Erikson, David Richardson, and Peter H. Wiebe <b>Keywords:</b> biodiversity, zooplankton, metagenetics
	<b>CM code:</b> D:24 Poster <b>Withdrawn</b>
<b>11:19</b>	<b>CM code:</b> D:07 Poster <b>Title:</b> Taxonomic and functional diversity patterns of fish assemblages in the European Seas <b>Authors:</b> Laurene Pécuchet, M. Hidalgo, M. Lindegren, <i>et al.</i> <b>Keywords:</b> diversity, demersal communities, traits, environmental gradients, Mediterranean Sea, Atlantic Sea
<b>11:21</b>	<b>CM code:</b> D:25 Poster <b>Title:</b> Diversity in the retained and escapee catch of three different trawl cod-end meshes in the E. Mediterranean <b>Authors:</b> Ch. Mytilineou, A. Anastasopoulou, C. Stamouli, S. Kavadas, C.J. Smith, A. Siapatis, and K. Papadopoulou <b>Keywords:</b> species diversity, codend catch, escapees, Eastern Mediterranean
<b>11:23</b>	<b>Discussion</b>
<b>11:30</b>	<b>End of session</b>