Biodiversity of Coastal Marine Ecosystems

Pattern and Process - A Euroconference

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Chair: Carlo Heip - NL, Netherlands Institute of Ecology, Yerseke, NL
Vice-chair: Richard Warwick - UK, Plymouth Marine Laboratory, Plymouth, UK

Topics:
1. General patterns in marine biodiversity
2. Patterns of coastal marine biodiversity in major groups
3. Patterns of biodiversity in different habitats
4. The human factor
5. Methodology, European Co-operation, End Users
Scientific/technological objectives and Content
Carlo Heip

Acknowledgements

Patterns of coastal marine biodiversity in major groups
Chairied by Jeanine Olsen & Marina Montresor

- Microbial (and viral) diversity: general patterns in marine and coastal environments
  Erko Stackebrandt

- Diversity of prokaryotes: Water column versus sediments
  Ramon Rossello-Mora

- Diversity of phytoplankton
  Victor Smetacek

- The role of cysts and spores in maintaining diversity of coastal phytoplankton
  Marina Montresor

- Diversity of symbiosis in marine invertebrates
  Nicole Dubilier

- Molecular genetics in benthic macrophyte diversity research
  Jeanine Olsen

- Diversity of zooplankton
  Martin Angel

- Ciliate Microzooplankton, An Example of Congruence of Local and Regional Diversity
  John Richard Dolan

Patterns of biodiversity in different habitats
Chairied by Richard Warwick, Karsten Reise & Victor Smetacek

- Animal diversity in shallow water sediments
  John Gray

- Thermal ecotypes in a tropical to warm-temperate marine macrophyte: Analysis of the physiological background of ecotypic differentiation
  Anja Eggert

- Diversity of benthic copepods in a dynamic but intensively exploited marine environment
  Wendy Bonne and Magda Vincx

- Setting patterns of diversity in marine sediment communities: The importance of bioturbation
  Stephen Widdicombe

- Loss of biodiversity: interactive effects of mussels and limpets in intertidal communities
  Tasman P Crowe, Natalie J Frost, and Stephen J Hawkins

- Comparison Characteristic of the Halacaridae Fauna from the Black and Mediterranean Seas
  Maria Gelmboldt

- Temporal variations and succession of sublittoral rocky bottom biota in the arctic
  Kongsfjord using underwater photographs and image analysis
  B. Gulliksen and F. Beuchel

- Zoobenthic diversity in the Black Sea - constraints in relation to natural and anthropogenic factors
  Valentina Todorova

Methodology, European Co-operation, End Users
Chairied by John Gray & Frederick Grassle

- Rapid assessment of seabed biodiversity: lower taxonomic resolution and indicator groups as surrogates for species level identification
  Frode Olsgard

- Relatedness of species: A neglected aspect of biodiversity
  Richard Warwick

- Diversity of habitats and species at sedimentary shorelines: Restoring losses by nourishing sand
  Karsten Reise
• Biodiversity data
  Karen Stocks
• Remote sensing of biodiversity
  Ian Joint
• Role of on-line species information systems in taxonomy and biodiversity
  Mark Costello
• How does aggregation of macrobenthic data to taxonomic levels higher than species
  correspond to functional type groupings
  R.M. Kennedy and M. Solan

The human factor

Chaired by Mark Costello

• Biodiversity and conservation (new approaches for protecting seabed wildlife)
  Keith Hiscock
• Impact of fish farming on marine biodiversity
  Ioannis Karakassis
• The use of new tools to integrate Tourism into sustainable management of coastal areas
  Rafael Sardá, Conxita Avila, Muntsa Solà, Joan Mora and Sergi Taboada

Synthesis and Scientific Highlights

Carlo Heip

Abstracts of the poster presentations

• Biodiversity of continental shelf soft-sediment macrobenthos communities
  Kari E. Ellingsen and John S. Gray
• Comparative characteristics of the Halacaridae fauna from the Black and Mediterranean
  Seas
  M. Gelmboldt
• Oligotrophic bacterial communities versus communities adapted to eutrophic conditions
  as criterion for evaluating the anthropic influence on marine areas
  Giuliano Laura, Yakimov Michail M. and Crisafi Ermanno
• Importance of habitat diversity for initial settlement and adult distribution of Macoma
  balthica
  Iris E. Hendriks, Luca A. van Duren, T. Ysebaert and Peter M.J. Herman
• Anctialine caves: Hot-spots of ancient biodiversity at the ocean rim
  D. Jaume
• Understanding marine species patterns across spatial scales
  M. Johnson
• On the Black Sea plankton diversity in relation to some aspects of anthropogenic impact
  L. Kamburska and S. Moncheva
• Impact of fisheries on diversity of demersal fish communities
  M. Labropoulou and C. Papaconstantinou
• Species richness and temporal stability in natural macroalgal communities
  Anne Lise Middelboe
• Revising the taxonomic composition and distribution of Fucophyceae of the Black Sea
  N.A. Milchakova
• Ecology of the phytoplankton blooms in the coastal Adriatic waters
  Zivana Nincevic and Ivona Marasovic
• Microbial diversity in nutrient manipulated mesocosms
  Lise Øvreás, D. Bourne, M. Heldal, V. Torsvik and F. Thingstad
• Ecological and evolutionary diversity of macroalgae: examples from the fucoids
  E. Serrao, G. Pearson, C. Engel, C. Daguin, L. Ladah, C. Monteiro, C. Viegas,
  V. da Fonseca and R. Bermudez
• Blank spaces in the knowledge of coastal marine biodiversity
  N.V. Shadrin
• Biological invasions in coastal marine habitats: a population genetics approach
  F. Viard, F. and D. Jollivet
• The Helgoland biological and oceanographic time series
  K. H. Wiltshire, M. Hoppenrath, H. Spindler, J. van Beusekom and R. Scharek

Participants