

## MONDAY 16<sup>th</sup> EFFECTS OF FISHING ON BENTHIC FAUNA

### REGISTRATION: 15:00 – 18:00

At the conference hotel

### ICEBREAKER 18:30 –

At the town hall. Serving of snack (Herring tapas) and welcome greetings by the Mayor in Tromsø.

## TUESDAY 17<sup>th</sup> EFFECTS OF FISHING ON BENTHIC FAUNA

### OPENING: 09:00 – 09:45

Arne Benjaminsen (Dept. of Science and innovation at the Norwegian Ministry of Trade, Industry and Fisheries)

Poul Degnbol (ICES)

### ***EFFECTS ON SOFT BOTTOM COMMUNITIES 09:45 – 12:30***

**Implications of fisheries impacts to seafloor biodiversity and Ecosystem-Based Management:** Simon F. Thrush

Habitat-specific effects of fishing disturbance on benthic species richness in marine soft sediments: P. Daniël van Denderen

Bottom trawling impacts on the deep-sea benthic communities from the SW Portuguese continental slope (NE Atlantic): Sofia P. Ramalho

The effects of commercial dredging and trawling on epifaunal benthic communities associated with weathervane scallops in Alaska: Jessica Glass

Predicting benthic community patterns using environmental gradients and the significance of fishing intensity: a case study in the English Channel: Claire Catherall

Determining the impacts of trawling on benthic function in European waters: a biological traits approach: [Andrew Kenny](#)

***EFFECTS ON MIXED BOTTOM COMMUNITIES 13:25 – 17:45***

**Assessment of trawling impacts on benthic ecosystems with particular reference to mixed sediment bottom fauna on shelf ecosystems:** [Adriaan D. Rijnsdorp](#)

Evaluation of chronic bottom trawling disturbance on continental shelf benthic communities in the Southern Tyrrhenian Sea, a Mediterranean case study: [M. Cristina Mangano](#)

The impact of trawling on the functional composition of coastal and shelf macrofaunal and megafaunal benthic assemblages in the Eastern Mediterranean: [Chris Smith](#)

Context dependency of the magnitude of fishing impact on temperate epibenthic assemblages: Implications for fisheries closed areas: [Marija Sciberras](#)

Deep-sea suprabenthic assemblages in the Blanes canyon and adjacent open slope (NW Mediterranean): diversity and spatio-temporal variations in important fishing grounds: [Mariana Almeida](#)

Development of a model of disturbance and recovery dynamics for marine benthic ecosystems: [Carolyn Lundquist](#)

Developing an indicator of the state of offshore habitats: a UK case study using a spatially-explicit vulnerability model: [Ana Jesus](#)

Bottom fisheries closures introduced by Atlantic high-seas bottom fisheries and regulatory frameworks to facilitate sustainable resource utilization and conserve vulnerable marine ecosystems: [Odd Aksel Bergstad](#)

***PANEL DISCUSSION MANAGEMENT IMPLICATIONS 17:45 – 18:30***

Discussion leaders: Poul Degnbol, Simon F. Thrush, Adriaan D Rijnsdorp

***POSTER SESSION AND EXHIBITIONS 18:30 – 19:30***

***EXCURSION WITH SNACK 20:00 –***

## **WEDNESDAY 18<sup>th</sup> FISHING GEAR IMPACT AND TECHNICAL DEVELOPMENT**

### ***BOTTOM IMPACT FROM FISHING GEAR 09:00 – 12:20***

**The physical impact of towed demersal fishing gears on soft sediments:** [Barry O'Neill](#)

Physical impact of beam trawling revisited: sediment resuspension and disturbance of tickler chain and pulse beam trawling: [Jochen Depestele](#)

Estimation of seafloor impact from demersal trawls, seines and dredges based on gear design and dimensions: [Ole R. Eigaard](#)

The impact of electrical pulses on benthic invertebrates: [Maarten Soetaert](#)

Comparing apples and oranges: a statistical approach to compare the impact of active and passive fishing gears on epibenthic communities: [Kris Hostens](#)

The impact of deep-sea bottom longline and handline on Vulnerable Marine Ecosystems: [Telmo Morato](#)

### ***GEAR DEVELOPMENT 13:25 – 17:45***

**Mitigation options to reduce impact of trawling on benthos:** John Willy Valdemarsen

Reducing seabed impact of trawling: Can off-bottom floating bridles be used to reduce seabed contact and flounder by catch in shrimp and haddock trawls? [Pingguo He](#)

Gear modifications to a shrimp trawl to reduce seabed impacts in the Atlantic Canada inshore shrimp fishery: [Paul Winger](#)

Do semi-demersal trawls catch cod? A comparison of a semi-demersal and demersal trawl, and how density/visibility may play a role: [Melanie Underwood](#)

Performance and seabed impact of alternative fishing gears to boat seine fisheries: [A. Sala](#)

Biological impact of beam trawling revisited: A comparison of direct mortality of benthic fauna between tickler chain and pulse beam: [Lorna Teal](#)

High-resolution mapping of European fishing pressure on the benthic habitats: [Ole R. Eigaard](#)

The MSC's Consequence Spatial Analysis: A risk-based approach for assessing habitat impacts: Jodi Bostrom

A systematic review and meta-analysis on the effects of mobile bottom fishing on the benthos: Kathryn Hughes

**PANEL DISCUSSION MANAGEMENT IMPLICATIONS 17:45 – 18:30**

Discussion leaders: Barry O'Neill & John Willy Valdemarsen

**POSTER SESSION AND EXHIBITIONS 18:30 – 19:30**

**CONFERENCE DINNER 20:00**

**THURSDAY 19<sup>th</sup> EFFECTS OF FISHING ON BENTHIC FAUNA**

**EFFECTS ON SOFT BOTTOM COMMUNITIES 09:45 – 12:20**

**Effects of towed bottom fishing gear on benthic biota: current knowledge and future research priorities:** Michel J. Kaiser

Ecological significant effects of bottom trawling revealed by functional trait analysis of macrobenthic communities: Paul Whomersley

Indirect effects of otter trawling on the condition and trophic level of Nephrops and flatfish in the Kattegat: Jan Geert Hiddink

Fishing effects on distribution and trophic guild structure of the benthic assemblages in the South of Portugal (NE Atlantic): Marina R. Cunha

Fishing impacts on benthic-pelagic coupling: the scaling up of ecological functioning experiments: Drew Lohrer

Community consequences of bottom trawl fisheries in demersal food webs: Tobias van Kooten

***EFFECTS ON MIXED BOTTOM COMMUNITIES 13:25 – 17:45***

**The impacts of deep-sea fisheries: their effects on the megabenthos, and lessons for sustainability:** Malcolm Clark

Effects of trawling on sessile megafauna and evaluation of the efficacy of management strategies: C. Roland Pitcher

Trawling impact on megabenthos and sediment in the Barents Sea: use of satellite vessel monitoring and video: Lene Buhl-Mortensen

Benthic habitats of the West Greenland shelf: What is the impact of shrimp trawling?: Kirsty Kemp

The Bottom Line on Bottom Trawling: A Review of the Scientific Literature: Les Watling,

Quantifying recovery rates and resilience of seabed habitats impacted by bottom fishing: Gwladys Lambert

Indicator species of the vulnerable marine ecosystems in the Barents Sea: Denis Zakharov

Quantitative risk assessment of benthos & bycatch sustainability in a tropical shelf trawl fishery: C. Roland Pitcher

An approach to link changes in benthic community structure with the delivery of ecosystem services in trawling grounds: Alba Muntadas

***PANEL DISCUSSION MANAGEMENT IMPLICATIONS 17:45 – 18:30***

Michel J. Kaiser & Malcolm Clark

**CLOSING 18:30 – 19:30**

**FRIDAY 20<sup>th</sup>**

**EXCURSION POSSIBILITIES**

Private excursion arrangements can be made, information is available at the conference hotel.