MareFrame

Icelandic Waters

Northern Waters

North Sea

Baltic Sea

Western Waters

Black Sea

Mediterranean Sea
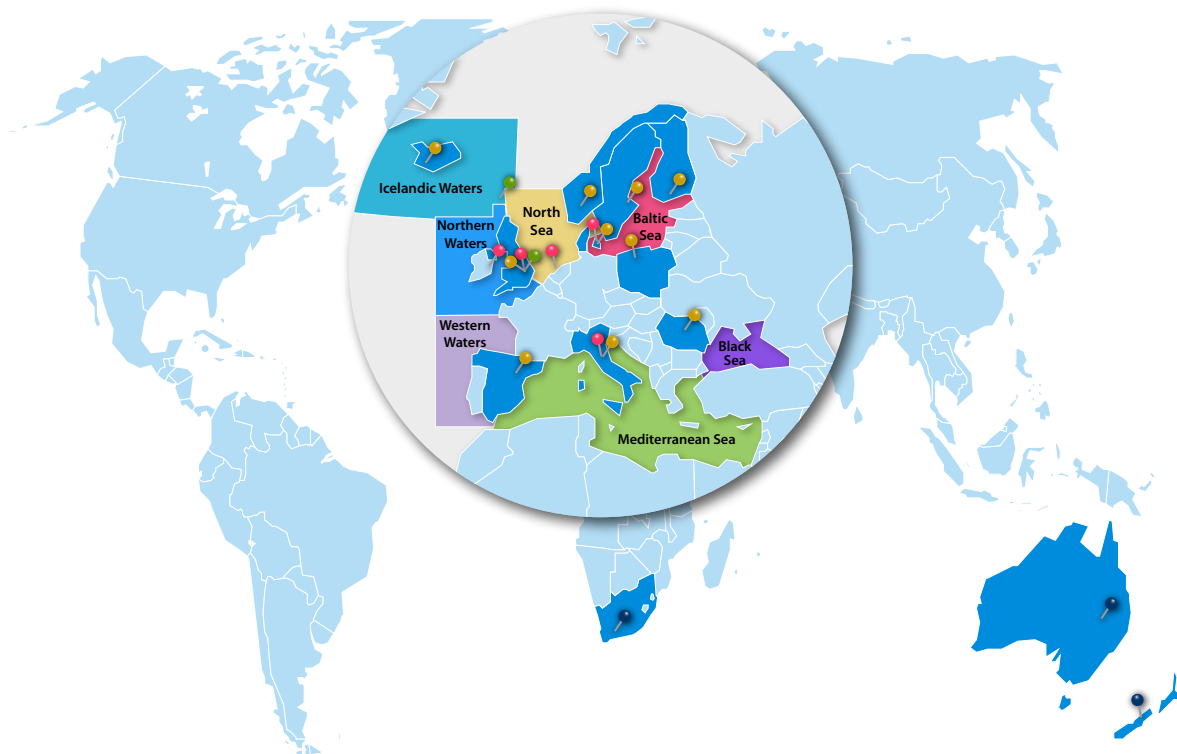
MareFrame Final Meeting

13-14 December 2017

Venue:

Comics Art Museum - Brussels, Rue des Sables 20, 1000 Brussels

MareFrame Policy Day

Increased use of an Ecosystem-based Fisheries Management Solutions

13 December 2017

09:00 Registration

09:30 Welcome Speech

Chair: *Anna Kristín Daníelsdóttir,* MareFrame Coordinator, MATIS

- *Sigi Gruber*, Head of the Marine Resources Unit, Directorate General for Research and Innovation, European Commission.

- *Ernesto Penas Lado*, Principal Advisor, Common Fisheries Policy Development, Directorate General for Maritime Affairs and Fisheries, European Commission.

- *Michel Sponar*, Deputy HoU Marine Environment & Water Industry, Directorate General for Environment, European Commission.

10:15 On the implementation of Ecosystem-based Fisheries Management (EBFM)

Gunnar Stefánsson, MareFrame Scientific Coordinator, University of Iceland

PART I

10:30 A walk through the MareFrame Roadmap for the Implementation of EBFM in the European Union

Chair: *Gunnar Stefánsson,* MareFrame Scientific Manager, University of Iceland

10:35 Policy relevance and social robustness (II): the co-creation approach.
Marta Ballesteros, CETMAR

10:40 What are the advisory system needs for an effective implementation of an EBFM?
Clara Ulrich, Chair of the European Commission Scientific, Technical and Economic Committee for Fisheries (STECF). DTU-AQUA, Section for Ecosystem-based Management.

11:05 Using, comparing and choosing: Ecosystem Models for European fisheries.
Paul G. Fernandes, University of Aberdeen

11:10 A Decision Support Framework for the real policy context.
Kåre N. Nielsen, University of Tromsø

11:20 Let's make it work: Case study Showhows: ecosystem models and decision support tools in practice.
Chair: *Francesco Colloca*, CNR

Case Study	Case Study Leader	What
North Sea	John Pope, NCR (Europe) Ltd.	9 fishing nations, 12 species, 7 management scenarios
Mediterranean Sea	Francesco Colloca, CNR	Internationally shared fisheries, 3 species, 7 management scenarios
Baltic Sea	Valerio Bartolino, SLU	9 fishing nations, 3 species, 6 management scenarios
Black Sea	Magda Nenciu, INCDM	3 fishing nations, 1 species, 3 management scenarios
South Western Waters	Javier Ruiz, CSIC	1 fishing nation, 2 species, 4 management scenarios
West of Scotland	Alan R. Baudron, UNIABDN	5 fishing nations, 3 species, 7 management scenarios
Icelandic Waters	Bjarki Elvarsson, MFRI	1 fishing nation, 3 species, 5 management scenarios
Chatham Rise, New Zealand	Ian Tuck, NIWA	1 fishing nation, multispecies

Coffee

12:20 What is in an ecosystem approach for the industry?
Martin Pastoors, Chief science officer at the Pelagic Freezer-trawler Association (PFA)

13:00 Inside-out: lessons learnt from being a stakeholder and project partner.
Verena Ohms, Executive secretary of the Pelagic Advisory Council (Pelagic AC)

13:05 Lunch

14:15 Panel Sessions

Chair: *Gunnar Stefánsson*, University of Iceland

Parallel Session	Chair	Participants
I. How the advisory System copes with EAFM	Mark Dickey-Collas, Ecosystem approach coordinator, ICES	Robin Cook, University of Strathclyde Maciej Tomczak, Stockholm University
II. The policy system facing EAFM	Jesper Raakjær, IFM-AAU	Luc Van Hoof, IMARES Poul Degnbol, IFM
III. What answers are available? International panel	Ian Tuck, NIWA	Andre Punt, University of Washington Beth Fulton, CSIRO

15.20 Briefing from the parallel sessions

Mark Dickey-Collas, Jesper Raakjær and *Ian Tuck*

PART II

Chair: *Gunnar Stefánsson*, MareFrame Scientific Manager, University of Iceland

15:35 Delivering: the MareFrame Roadmap for the Implementation of EBFM in the European Union

Paulina Ramírez-Monsalve, IFM-AAU

15:40 Round Table Discussion

Chair: *Andrew I. L. Payne*, A&B Word Ltd.

16:10 The MareFrame Legacy

Anna Kristín Daníelsdóttir, MareFrame Coordinator, MATIS

Reception invitation by the Embassy of Iceland in Brussels.

MareFrame Scientific Conference
Advances in Ecosystem-based Fisheries Management

14 December 2017

08:30-09:00 Registration

09:00-10:30 Plenary Session

Chairs: *Anna Kristín Daníelsdóttir, Gunnar Stefánsson, Oddur M. Gunnarsson*

INVITED LECTURES:

09:00-09:30 Ecosystem Based Management - What is it and how do we deliver it? *Beth Fulton*

09:30-09:45 Are ecosystem models used for management and policy? *Villy Christensen*

09:45-10:00 Value-added science: Increasing the role of science in environmental management. *Lucia Fanning*

10:00-10:15 Modelling frameworks for the NE Pacific and how we integrate stakeholders into our decision making framework, including MSEs. *Andre Punt*

10:15-10:30 Fisheries certifications and how Mareframe initiatives inter-relate. *Andrew Payne*

10:30-11:00 Coffee Break

11:00-12:24 ORAL PRESENTATIONS (paper, Q&A included)

Topic 1. Participatory approaches to include stakeholders in Ecosystem-based Fisheries Management (EBFM).
Chair: *Lucia Fanning*

11:00-11:12 Who joins the table? A critical overview of the co-creation approach for the implementation of an Ecosystem Approach to Fisheries Management. *M. Ballesteros, R. Chapela, J. Raakjaer, P. Ramirez-Monsalve, T.J. Hegland, P. Degnbol, K. N. Nielsen, M. Rahikainen, A. Baudron, V. Bartolino, F. Colloca, J. Ruiz, M. Rincón, J. Pope, S. Agnarsson, B. Elvarson, M. Dickey-Collas, G. Stefánsson*

11:12-11:24 Real-Time Incentives (RTI), Ecosystem-Based Fisheries Management using 21st century technology. *S.B.M. Kraak, D. Pedreschi, H. Höffle, K. Farnsworth, A. Barkai, D. Reid*

11:24-11:36 Co-design, testing and stakeholder buy-in of real-time incentive fisheries management: The Celtic Sea case study.
D. Pedreschi, H. Höffle, S. Kraak, A. Barkai, K. Farnsworth, D. Reid

11:36-11:48 A swift transportable and User Friendly Multispecies Model of the North Sea that describes the main tradeoffs involved in an Ecosystem Approach to Fisheries Management (EAFM).
J. Pope

11:48-12:00 Steps to unlocking an Ecosystem Approach to Fisheries Management: Towards displaying the N Dimensional Potato. *J. Pope, T.J. Hegland, M. Ballesteros, K.N. Nielsen*

12:00-12:12 Carrots or sticks? How to institutionalise EAFM advice within the CFP.
P. Ramirez-Monsalve, K.N. Nielsen, M. Ballesteros, T.S. Kirkfeldt, M. Dickey-Collas, A. Delaney, T.J. Hegland, J. Raakjær, P. Degnbol

12:12-12:24 Human dimensions in ecosystem-based fisheries management: On integrating social objectives in Sweden. *P. Ramirez-Monsalve, M. Arias Schreiber, S. Linke*

12:24-13:30 Lunch Break

13:30-14:54 ORAL PRESENTATIONS (paper, Q&A included)

Topic 2. Decision Support Frameworks in Ecosystem-based Fisheries Management (EBFM). Chair: *Andre Punt*

13:30-13:42 Tools and processes to support scenario based planning in Ecosystem Based Fisheries Management: lessons from seven European case studies.
K.N. Nielsen, M. Aschan, S. Agnarsson, M. Ballesteros, V. Bartolino, A. Baudron, B. Bauer, F. Colloca, A.K. Daníelsdóttir, B. Elvarsson, P.G. Fernandes, T.J. Hegland, M. Nenciu, M. Rahikainen, P. Ramirez-Monsalve, M. Rincón, J. Ruiz, G. Sirbu, M. Sinerchia, J. Raakjær, G. Stefánsson, J.R. Viðarsson

MareFrame

Poster Session

In parallel with oral presentations (during coffee/lunch breaks)

13:42-13:54 **A Gadget multispecies model to explore the fisheries management implications of prey-predator interactions in the Strait of Sicily trawl fishery.**
F. Colloca, M. Enea, V. Gancitano, F. Fiorentino

13:54-14:06 **Evaluating MareFrame decision support tools in their ability to support implementation of the EAFM in the EU.**
U. Laksá, P. Ramírez-Monsalve, K.N. Nielsen, P. Sørdahl, J. Arias, M. Ballesteros, O. Gregersen

14:06-14:18 **Using Gadget in a multi-criteria analysis of the Icelandic cod fishery.**
B. Elvarsson, S. Agnarsson, S. Guðmundsdóttir, J. Viðarsson

14:18-14:30 **Spawning stock recruitment when natural mortality is dynamic: a proposed solution for ecosystem models.** V. McGregor, B. Fulton, M. Dunn

14:30-14:42 **Cetacean fishery interactions: A multi-species model for ecosystem management in Atlantic waters of the Iberian Peninsula.**
C. Saavedra, S. Cerviño, B. Elvarsson, D. Howell, G. Pierce, B. Santos

14:42-15:00 Coffee Break

15:00-16:48 ORAL PRESENTATIONS (paper, Q&A included)
Topic 3. Bridging the gap between fisheries research, policy and societal needs: case studies and lessons learned. Chair: Robin Cook

15:00-15:12 **The future of European Fisheries under sustainable management.**
P.G. Fernandes, N.G. Fallon, V. Bartolino, B. Elvarsson, E. Sturludottir, B. Bauer, M. Sinerchia, S. Cerviño, C. Saavedra, J. Pope. A. Baudron, M.M. Rincon-Hidalgo

15:12-15:24 **Ecosystem resilience: Managing our fisheries for a sustainable future.**
L. Morissette, M. Aschan

15:24-15:36 **Can the Common Fisheries Policy achieve Good Environmental Status in exploited ecosystems: the example of West Scotland fisheries?** A. Baudron, N. Serpetti, N. Fallon, S. Heymans, P.G. Fernandes

15:36-15:48 **Towards ecosystem-based fisheries management: Modelling multispecies interactions between grey seals and demersal fish species in the West of Scotland.**
N.G. Fallon, V. Bartolino, A. Baudron, P.G. Fernandes

15:48-16:00 **Decision support disentangles the multiple EAFM goals of the mixed shrimp and hake fishery in the Strait of Sicily.**
M. Rahikainen, M. Sinerchia, M. Enea, F. Fiorentino, M. Ballesteros, F. Colloca

16:00-16:12 **Granger-causality analysis of integrated-model outputs, a tool to assess external drivers in fishery.** M. Rincón, B. Elvarsson, F. Ramos, J. Ruiz

16:12-16:24 **Ecosystem model of Icelandic waters using the Atlantis modelling framework.**
E. Sturludottir, C. Desjardins, B. Elvarsson, B. Fulton, K. Logeman, G. Marteinsdottir, G. Stefnsson

16:24-16:36 **Socio-economic impact assessment of management alternatives in the context of EAFM.**
M. Laksáfoss, J. Arias-Hansen, U. Laksá, P. Ramirez-Monsalve, A. Delaney, M. Ballesteros, Ó. Gregersen

16:36-16:48 **Simulating the effect of alternative management solutions in the mixed fisheries of the Strait of Sicily using the Atlantis end-to-end ecosystem model.**
M. Sinerchia, A. Cucco, G. Garofalo, M. Gristina, F. Badalamenti, F. Fiorentino F., F. Colloca

16:48-17:05 Coffee Break

17:05-17:20 **Report of the MareFrame External Advisory Group: Overall evaluation and lessons-learned.**

17:20-17:35 **Scientific Conference Wrap-Up & Conclusions.**

1. **Is the ecosystem based fisheries management a reality in the Bay of Biscay? Analyzing the effects of the implementation of the landing obligation at an ecosystem level.**
Andonegi et al.

2. **Benchmarking the ability of different stock-assessment models to capture the highly-fluctuating dynamics of small pelagics.**
Corti et al.

3. **Taking a data challenged stock further: a case-study on Icelandic ling.**
Elvarsson et. al.

4. **Testing the performance of a spatial resampling bootstrap method using a simulated ecosystem.**
Frater et al.

5. **Ecological trends in the Cantabria Sea ecosystem: A modeling approach including trophic controls.**
López-López et al.

6. **Activities of the COSMOMAR Competence Center for Earth Observation Data used for decision support aiming at sustainable fisheries in the Romanian coastal area.**
Mateescu et al.

7. **Participatory planning and decision support for the West coast of Scotland mixed fisheries.**
Nielsen et al.

8. **Ecosystem approach to long-term environmental assessment.**
Patrascu et al.

9. **ODEMM in the Celtic Seas: A qualitative IEA with decision support tools.**
Pedreschi et al.

10. **Questions and answers about the use of genetics for stock assessment and management. European hake as an example.**
Perez et al.

11. **Comparing the Steady State Results of a range of Multispecies Models between and across the geographical areas considered by the MareFrame Project using a Jacobian matrix approach.**
Pope et al.

12. **A time varying extension to the Charmingly Simple Model of the North Sea that can fit tropic level data.**
Pope et al.

13. **How Do We Start to Understand the Cost of Compliance and its Long Term Consequences to EBFM?**
Pope et al.

14. **MareFrame toolbox supporting informed fisheries management decisions.**
Rahikainen et al.

15. **EwE model for Icelandic waters.**
Ribero et al.

16. **GIS as a Tool for an Ecosystem Approach to Fisheries Management - The Case Study of Sardine Fishery in Portugal.** Szalaj et al.

17. **Can Ecopath with Ecosim mimic the Atlantis ecosystem?**
Sturludóttir et al.

18. **Sensitivity study of the Icelandic Atlantis model.**
Sturludóttir et al.