

### **MAR-ECO Synthesis Plan**

Plan due to the CoML Secretariat by 30 Sept 2007

Contact person: Odd Aksel Bergstad

*This document represents the revised version of Draft 1, following an early anonymous review and discussions in the MAR-ECO Steering Group and project workshop in Reykjavik 28-30 September 2007. The detailed reports and advice resulting from the discussions were not included in the present plan but will be used to guide continued work on the synthesis of MAR-ECO and the contribution to the CoML 2010.*

- (1) Identify a single individual who will serve as leader with responsibility to ensure the synthesis proceeds on schedule

Odd Aksel Bergstad will be the MAR-ECO representative held responsible for ensuring that the synthesis proceeds on schedule.

- (2) Your overall synthesis team and each individual's responsibilities

Title	Name	Responsibility
MAR-ECO synthesis team leader	O.A. Bergstad	To ensure the synthesis proceeds on schedule, solicitation and coalition of the groups opinions, communication with CoML secretariat and to provide MAR-ECO's Synthesis Plan
Leader of drafting team	M. Vecchione	Drafting of comprehensive overviews, "the one voice", and contributor to text on cephalopods.
System synthesis scientist	I.G. Priede	Conceptual model generation. Input from UK field efforts 2007-2009
Zooplankton co-ord. and project secretary	T. Falkenhaus	Scientific secretarial duties, drafting of text on zooplankton, and contributions to comprehensive overviews. Liaison with CMarZ.
Benthos and biogeography expert	A.Gebbruk	Drafting of text on epibenthos. Oversee biogeographical accounts and check consistency for several taxa.
Demersal nekton and seamount expert	G.Menezes	Drafting of text on demersal fish and comparisons with seamount studies. Liaison with CenSeam
Pelagic nekton and ecology expert	T.Sutton	Drafting of text on pelagic fish, pelagic ecology and biogeography. Contributor to conceptual model. Input from US NSF project 2007-2009.
Zooplankton and pelagic production expert	A.Gislason	Drafting of text on phyto- and zooplankton production.

Demersal nekton specialist, biogeographer and taxonomist	I. Byrkjedal	Drafting of text on demersal fishes and biogeography and taxonomy of fishes. Scientific collection curator. BARCODING contact.
Pelagic nekton scientist	U.Piatkowski	Contributor to conceptual model and drafting of text on pelagic ecology. Contr. to account on cephalopods.
Modeler and methods analyst	M.Heino	Contributor to conceptual system model and population models. Gear comparisons.
Hydroacoustics specialist	O.R. Godø, J. Horne	Contributor to pelagic model output and visualization efforts. Compilation of data from all cruises (A.F., G.O.S, ECOMAR)
Marine mammals and seabirds specialist	L. Nøttestad	Incorporation of marine mammal and bird results in pelagic modeling efforts
Physical oceanographer	H.Søiland/ Jane Read	Incorporation of oceanography and bathymetry results in overall synthesis
Data manager	T.Wenneck	Comprehensive services to all others. Data acquisition and graphics. OBIS entries.
GIS co-ordinator and demersal fish expert	Aa.Hoines	Contributor to all partners, and to demersal fish ecology accounts.
E&O team representative	J.Hoyer/E. Bartle	Synthesise E&O efforts, and oversee PO efforts in synthesis phase.

(3) A schedule of major milestones toward the production of a project-level synthesis report.

**What needs to be synthesized:**

*Headings and sub-headings below may serve as the outline of the MAR-ECO contribution to a comprehensive CoML document. Other output, independent of but supplementing this document, is also indicated.*

Scientific results

Patterns of distribution and abundance for all taxa set in a biogeographical context and in relation to the regional abiotic environment

Comprehensive conceptual model, synthesizing information on all taxa

Food-web descriptions

Key pattern-generating processes at different spatial scales

Summary of new knowledge. (also a special multi-author peer-reviewed paper summarizing new system-wide understanding generated y MAR-ECO)

#### The way forward

Identification of most significant knowledge gaps. KUU evaluation.

Recommendation for future work, regionally and globally. Recommendations on strategies for new studies and monitoring.

#### Methodology

Methodology description and evaluation based on MAR experience (draft submitted earlier, and details given in paper by Wenneck et al. in DSR II special issue, 2008)

Discussion of bottlenecks

#### Data generated

Management procedure description (data types and amounts, databases, uploading, updating, downloading, access rules, features online)

Collections (where curated and procedures for access).

MAR-ECO data in OBIS and Barcode of Life

#### Publications

**Internal** : Is ‘internal’ equivalent to ‘internal to CoML’? If so, we hope to have a clearer guidance on what document or other contribution is desired.

**Academic**: Two special issues of scientific journals (Deep Sea Research II, Marine Biology Research will appear primo 2008. Monograph on biodiversity published ultimo 2006. Many papers and talks planned for 2008-2009.

Numerous student theses at various levels.

**Public**: Two TV documentaries, 3 DVDs, 3 newsletters, posters in several languages, numerous presentations and talks, the DESEO book “Deeper than Light”, and the exhibition “Deeper than Light”. A popular book project has been initiated (Author professor emeritus Peter Boyle). A European event in 2009 has been proposed to EuroCoML.

#### Education and outreach

Overview of goals and achievements

Output overviews

Contributions to EuroCoML and CoML synthesis efforts

#### **Schedule :**

<b><u>Date</u></b>	<b><u>Item</u></b>	<b><u>Person Responsible</u></b>
June 2007	Circulate draft plan to network partners	Bergstad & Falkenhaus
September 2007	Discussion of draft plan at Reykjavik SG and project	Steering Group

	meeting	
November 2007	All-program meeting presentation of revised draft plan. Co-ordination with other projects	Bergstad
January 2008	Comprehensive workplan ready for implementation	Bergstad & Falkenhaus
Latter half of May 2008	First synthesis workshop, all team members (tabled above)	Bergstad & Falkenhaus convene
4 <sup>th</sup> quarter 2008	Drafts for descriptive sections available	All members of drafting team
Ultimo 2008	Meeting of project leaders for deepwater projects?	EuroCoML?
February 2009	KUU workshop, Long Beach, Ca	Bergstad
Medio 2009	Presentation of draft report to an all-project workshop. Debate on conceptual model for patterns.	Synthesis team
Ultimo 2009	Inclusion of new results from UK ECOMAR	Priede and Bergstad
Ultimo 2009	Inclusion of food-web descriptions based on sub-projects (US NSF and student projects)	Sutton, Hoines, Bergstad
January 2010	Presentation of full draft report to project network and submission to CoML	Bergstad & Falkenhaus
October 2010	Final CoML event, London	

O.A. Bergstad, T. Falkenhaus. 3 Oct 07.