

Preparing a special issue in *Journal of Sea Research* (April 2009) in relation to the AquaDEB group
 “Metabolic organization: 30 years of DEB applications and developments”

1. Provisional list of publications

The special issue should be published in April 2009 for the mid term evaluation of AquaDEB & the symposium DEB2009 on “Metabolic organization: 30 years of DEB applications and developments” (18-22 April 2009).

Some extra manuscripts may come from other contributors who have been contacted by B. Kooijman: Jeffrey Ren (New Zealand), Dina Lika (Greece), Tom Anderson (UK), Dick van Oevelen (The Netherlands), Rune Rosland & Øivind Strand (Norway), Morten Omholt Alver & Jo Arve Alfredsen (Norway), Marie Maar (Denemark), Caroline Tolla (France), Marie Eichinger (France).

WP	Content of the ms (keywords)	Author(s)	(Provisory) Title
	Rotifer production, individual model, DEB	Alver, M. A., Alfredsen, Jo A. & Olsen, Yngvar	An individual-based model for predicting body composition of cultured <i>Brachionus plicatilis</i> rotifers
WP1	Oyster; <i>Crassostrea gigas</i> ; food quantifiers; temperature effect; coastal environment	Bourlès, Y., M. Alunno-Bruscia, S. Pouvreau, G. Tollu, D. Leguay, C. Arnaud, S.A.L.M. Kooijman, P. Goulletquer	Modelling growth and reproduction of the Pacific oyster <i>C.gigas</i> : Application of the oyster-DEB model in a coastal pond
WP2	Bioaccumulation, PCB, hake, DEB model	Bodiguel, X, Loizeau, V., Maury, O, Mellon-Duval, C.	A mechanistic model of PCB bioaccumulation in the hake. Model predictions compared to field data
WP3	Modelling population dynamics, oysters	Boukal, D., Laugen, A. Dieckmann U & Ernande B.	Modelling population dynamics of farmed Pacific oysters from individual energy allocation; implications of life-cycle closure and inclusion of density dependent food acquisition
WP1	Manila clam, DEB parameters	Flye Sainte-Marie, J. <i>et al.</i>	A quantitative evaluation of the energetic cost of the development of brown ring disease in the Manila clam <i>Ruditapes philippinarum</i>
WP3	Ecosystem modelling, oysters	Grangeré, K. <i>et al.</i>	How environment contributes to the inter-annual variability of oyster physiological state?

WP1	Ormer growth, DEB parameters	Jean, F. <i>et al.</i>	
WP1	Bivalve, climate change	Freitas V, Cardoso JFMF, Santos S, Campos J, Drent J, Witte JIJ, Kooijman SALM, Van der Veer HW.	Bivalve growth in coastal areas along the Atlantic coast: implications of climate change on productivity.
WP1	DEB, social interactions, fish	Kooijman, S.A.L.M.	Social interactions can affect feeding behaviour of fish in tanks
	Algae, biodegradation	Lika, K. & Papadakis I.A.	Modelling biodegradation of phenols by algae
	DEB, microalgae, carbon sequestration, biofuels	Lorena, A., S. A. L. M. Kooijman, G. Marques, T. Sousa	Modelling of micro-algae for carbon sequestration and biofuel production
	Mussel, bio-geochemical model, ecosystem dynamics	Maar, M., Karsten Bolding, K. Petersen, J.K. Hansen, J.S.L. & K. Timmermann	Growth and feed-backs of blue mussels change ecosystem dynamics in a coupled physical-biogeochemical model of Nysted off-shore wind farm, Denmark
	DEB, ERSEM, complex ecosystem models, model integration	Mateus, M., J. Baretta, S. A. L. M. Kooijman, T. Domingos	Can we reach consensus between marine ecological models and metabolic theories in ecology?
WP1	Biological carbon pump, phytoplankton, GOTM, Redfield, stoichiometry	Omta, A.W., J. Bruggerman, S.A.L.M. Kooijman, H. Dijkstra	The physics of the biological carbon pump
WP1	Anchovy, larval stage, Bay of Biscay	Pecquerie, L. <i>et al.</i>	Resolving environmental effect on stage transition on anchovy early life history using DEB theory
WP1	DEB, d13C tissue signatures, d13C otolith signatures, individual temporal dynamics	Pecquerie, L., A. Lorrain, E. Dufour, R. Fablet, S.A.L.M. Kooijman	A DEB-based model of the dynamics of d13C signatures in fish tissue and otoliths
WP1	DEB oyster model, Arcachon Bay, food quantifiers	Pouvreau, S. <i>et al.</i>	Modelling the growth and reproduction of the Pacific oyster <i>Crassostrea gigas</i> in Arcachon bay over 9 years (1988-1996)
	Food quality, inorganic content, functional response, <i>Perna canaliculus</i>	Ren, J.	Effect of food quality on energy transformation
WP1	Larvae of <i>C. gigas</i> , DEB parameters	Rico-Villa, B. <i>et al.</i>	Growth Dynamic Energy Budget (DEB) model for the larvae of Pacific oyster <i>Crassostrea gigas</i>
WP1	<i>Mytilus edulis</i> , DEB parameters, model calibration, ecophysiological data, oligotrophic conditions	Rosland, R., T. Strohmeier, <i>et al.</i>	Applying DEB to predict growth and energy budgets of blue mussels under oligotrophic conditions

WP1	<i>Mytilus edulis</i> , reproduction, DEB parameters, validation with satellite data	Thomas, Y. Mazurié, J., S. Pouvreau, C. Bacher, M. Alunno-Bruscia	Modelling the growth of <i>Mytilus edulis</i> (L.) by coupling a Dynamic Energy Budget model with satellite-derived environmental data
WP1	Plaice physiology	Van der Veer HW, Cardoso JFMF, Kooijman SALM.	Physiological performance of plaice <i>Pleuronectes platessa</i> (L.) can be predicted by Dynamic Energy Budgets
WP1	Macoma, evolution of spawning dates	Van der Meer, J.	Seasonal timing in the reproduction of the bivalve <i>Macoma balthica</i> : a model study of fitness consequences
WP1	Cockle, Dutch estuaries, DEB model, growth	Wijsman, J.W.M., Brummelhuis, E., Smaal, A.C.	Application of a DEB model for cockles to simulate growth in the Oosterschelde estuary

2. Agenda

The **agenda** for **getting ready to submit these ms** to JSR and Elsevier is the following:

- * **21-23 May 2008** (AquaDEB meeting): we discussed the content of the different papers and their writing stage. We should start discussing a list of potential referees.
- * **8 August 2008**: final draft of papers should be finished and readable by everybody.
- * **from 9 to 31 August 2008**: internal check up of papers.
- * **15 September 2008**: all the papers must be sent for submission to JSR.
- * **March 2009**: (ultimate) date for accepting papers to JSR.
- * **April 2009**: submission to Elsevier
- * **July 2009**: publication of “hard copy”

NB: we will prepare ourselves a few “hard copies” for the DEB symposium in April 2009.