



SEVENTH FRAMEWORK PROGRAMME
THEME 6

Environment (Including Climate Change)

MEECE and EUR-OCEANS WORKSHOP
OSMOSE model: parameterization, calibration, coupling

Proposal Acronym: **MEECE**

Proposal full title: **Marine Ecosystem Evolution in a Changing Environment**

Grant agreement no: **212085**

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MEECE and EUR-OCEANS WORKSHOP

« OSMOSE model: parameterization, calibration, coupling »

CRH, Sète, 14 and 15 May 2009

Summary

Yunne Shin and Morgane Travers (IRD) convened a training workshop on «OSMOSE model: parameterization, calibration, coupling» in CRH Sète, the 14 and 15 May 2009. The workshop was co-funded by MEECE and EUR-OCEANS. Apart from Y. Shin and M. Travers, 8 participants were MEECE partners.

The workshop aimed at providing all the necessary knowledge on the concepts, hypotheses, codes, IO of OSMOSE model, as well as specific information on the 1 way and 2 ways coupling with Low Trophic Level models. Mean-term objectives in the frame of MEECE project is the parameterization, the calibration and the coupling of OSMOSE in the North Sea (Polcoms-Ersem-OSMOSE), in the Northern Aegean Sea (Pom-Ersem-OSMOSE), the Adriatic Sea (Pom-Bfm-OSMOSE) and in the Bay of Biscay (Roms-N₂P₂Z₂D₂-OSMOSE).

Agenda of the Workshop

Thursday 14 May

9h: Welcome

9h15: Overview of OSMOSE concepts, hypotheses, applications (Yunne Shin)

>>>>> 10h30-11h: *Coffee break*

11h: Short presentations of case studies
North Sea (Julia Blanchard)
Northern Humboldt (Jorge Tam, Ricardo Oliveros)
Gulf of Lion (Capucine Mellon)
Celtic Sea (Valentina Lauria)

12h30: Introduction to the structure of OSMOSE model, Java classes, object-oriented language (Yunne Shin)

>>>>> 13h-14h30: *Lunch*

14h30: Checking internet connections, install of softwares (jdk, Eclipse, Subclipse)

15h: Creation of OSMOSE project in Eclipse, checking out code source on SVN repository

15h30-17h30: Introduction to the codes, OSMOSE IO, running application on southern Benguela

Friday 15 May

9h: Coupling of OSMOSE to ROMS-NPZD (Morgane Travers)

>>>> 10h30-11h: Coffee break

11h: Short presentations of case studies

Bay of Biscay (Marina Shifflet)

Aegean Sea (Chris Smith, Kostas Tsiaras, George Petihakis)

Adriatic Sea (Marco Zavatarelli)

North Sea (Reinier Hille Ris Lambers)

12h: Discussion on the coupling of OSMOSE with other biogeochemical models: PISCES, BFM, ERSEM

>>>> 13h-14h30: Lunch

14h30: Calibration of OSMOSE using genetic algorithms (Raphaël Duboz)

15h30-17h30: Discussion on future applications and case studies, development of new modules.

List of participants:

| Participants | Institute | email | Case study |
|---------------------------|--------------|--|---------------|
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