Network of Excellence Marine Biodiversity and Ecosystem Functioning Responsive Mode Project 4.3

MarPACE

Marine Propagation Along the Coasts of Europe

Intercalibration workshop, 8-9 June 2006, Banyuls (France)

AIM OF THE RESEARCH

To identify phase-changes in recruitment along latitudinal gradients.

By taking samples of both pelagic propagules, primary and secondary settled organisms, we intend to examine if there is a gradual gradient in recruitment or sudden shifts in recruitment patterns (possibly indicating bio-geographical boundaries).



Sampling locations

Workpackages February 2005

Centro Interdisciplinar de Investigação Marinha e Ambiental Consorzio Nazionale Interuniversitario per le Scienze del

Ecological Consultancy Services Limited Finnish Institute of Marine Research

Laboratoire d'Oceanographie Biologique de Banyuls

Netherlands Institute for Ecology

Museum National d'Histoire Naturelle

Polish Academy of Sciences

Roskilde University

Royal Netherlands Institute for Sea Research

Station Biologique de Roscoff

Stiftung A. Wegener Institut fur Polar- und Meeresforschung

Universidade de Evora

Universitat de Illes Balears

University of the Azores

University of Wales at Swansea

Vlaams Instituut voor de Zee

Pan-European Gradients in Propagation and Settlement Events

Protocols

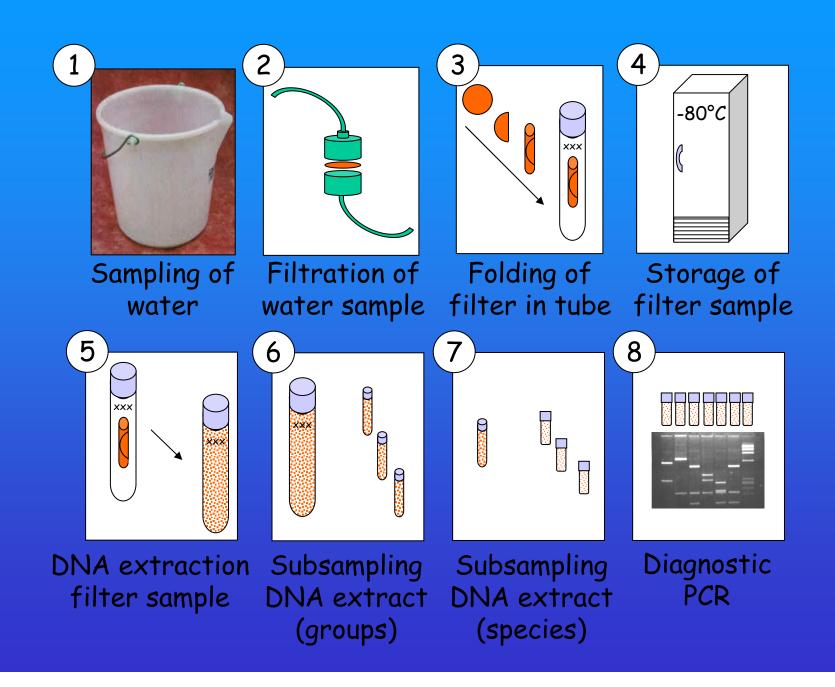
Pelagic propagules
Primary & secondary
settlers

November 2005

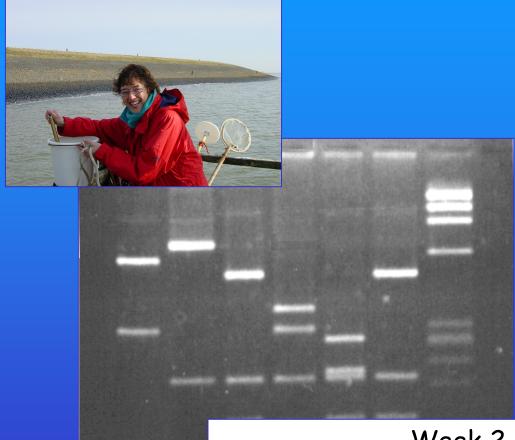
Protocols

Draft 8 November 2005 Katja Philippart & Judith van Bleijswijk Royal Netherlands Institute for Sea Research

Protocols pelagic propagules (June 2006)

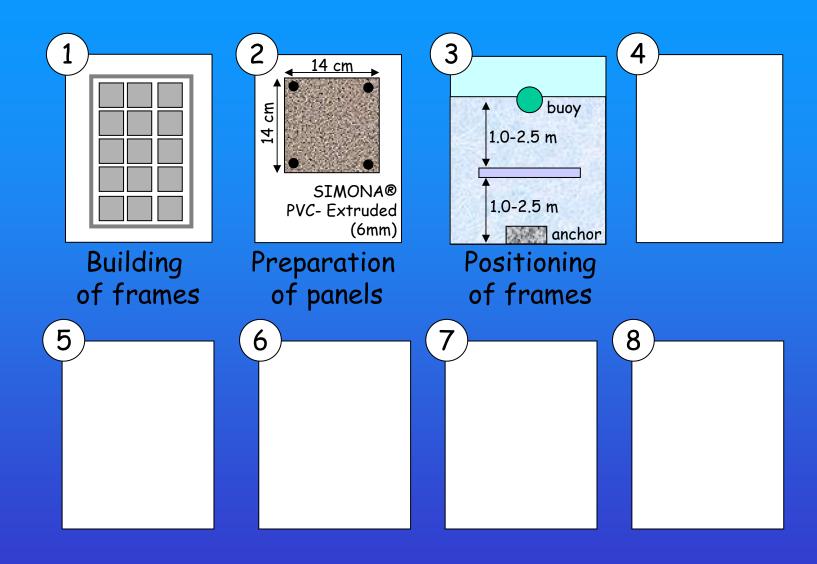


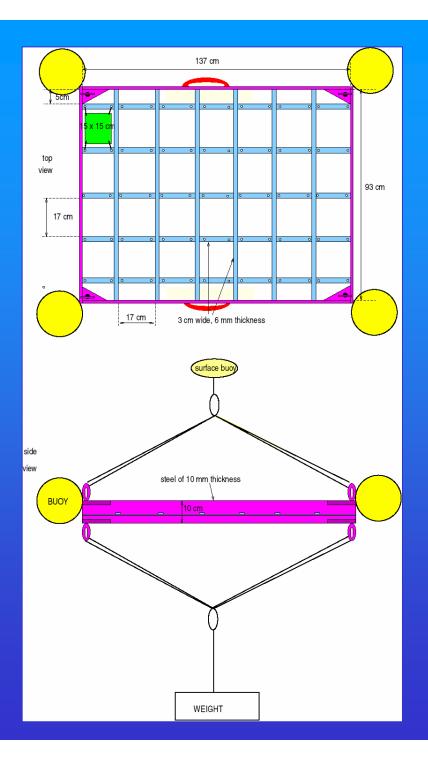
Protocols pelagic propagules (June 2006)



Week 2 Week 4 Week 6
Species a absent present present
Species b absent present absent
Species c absent absent present

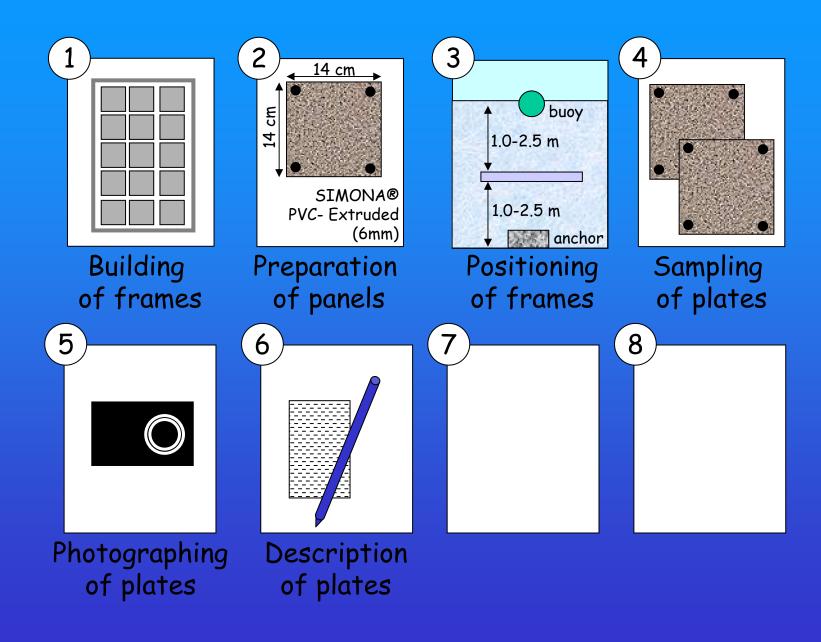
Protocols benthic settlers (June 2006)

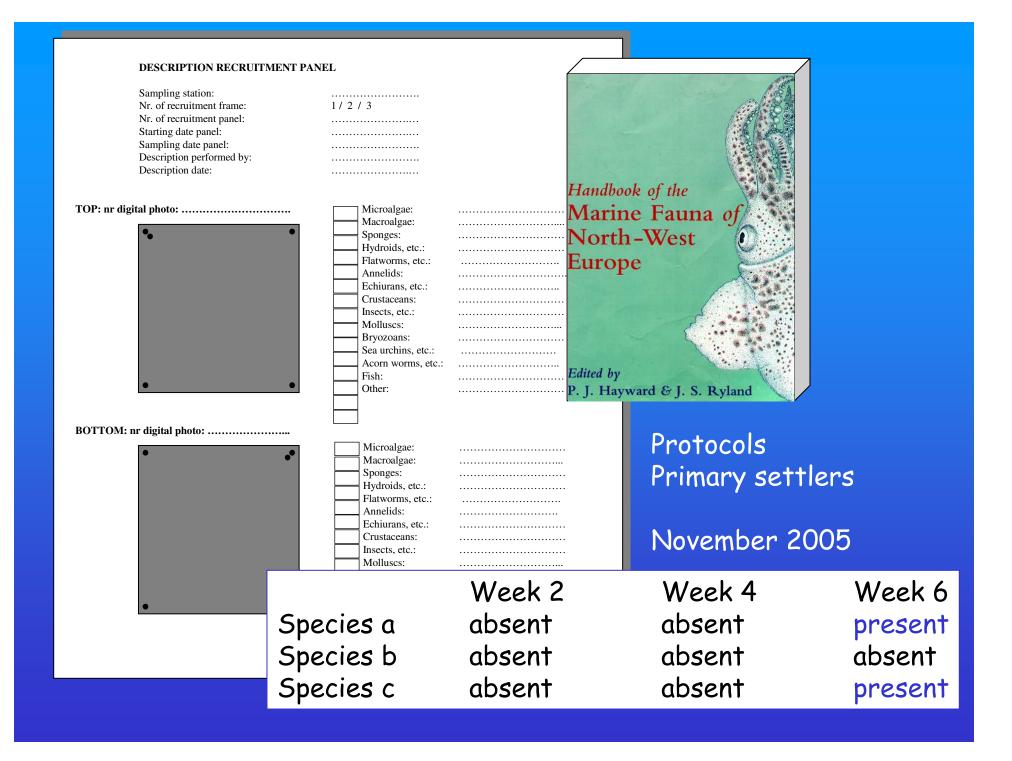




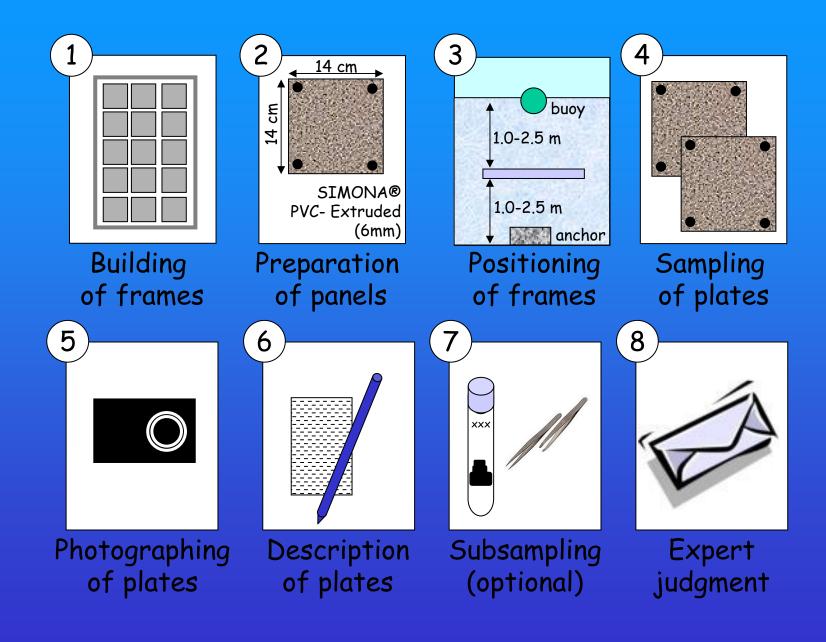
Recruitment frame Blue print (Katell)

Protocols benthic settlers (June 2006)





Protocols benthic settlers (June 2006)



Pelagic propagules

	Week 2	Week 4	Week 6
Species a	absent	present	present
Species b	absent	present	absent
Species c	absent	absent	present

Primary settlers

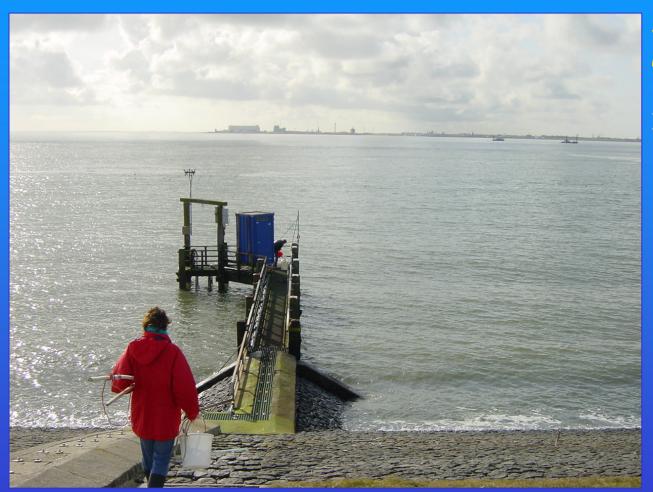
	Week 2	Week 4	Week 6
Species a	absent	absent	present
Species b	absent	absent	absent
Species c	absent	absent	present

Comparison of species

Timing reproduction (date)
Development time (# fortnights)
Settlement success (yes/no)

Comparison of locations

Trigger for reproduction Relationship with temperature Relationship with latitude / characteristics



Start of Measurements

15 September 2006



Presentation of First results

MarBEF General Assembly Spring 2007

REMAINING QUESTIONS

- 1. Recruitment frames versus panels (cf. SETL project)
- 2. Positioning recruitment panels (bottom/surface)
- 3. Instruments on recruitment panels (e.g. temp logger)?
- 4. All organisms present, or selected species only?
- 5. Molecular analyses (who does what?)
- 6. Secondary settlers too?
- 7. Latitudinal- & seasonal-dependent sampling frequency?
- 8. Gaps in latitudinal gradient (other partners)?
- 9. FP7 proposal?
- 10.