Annex 4. Work Plan (Amendment 2012)

Action topics are divided in maintenance and consolidation of the BFM System components by

a) Code maintenance and distribution

b) Code efficiency and portability

c) Maintenance, upgrade and addition of examples and configurations

and scientific improvements and/or implementation of new features.

The actions are organized in tables, one for each specific objective, containing a priority code, a description of the activity, and a rank code defined as:

0 Urgent: 0-6 months
1 Short-term: 0-12 months
2 Intermediate: 12-24 months
3 Long-term: 24-36 months

In the framework of the work plan, the following glossary is used for software maintenance:

- *Revision*: Equivalent to version.
- *Version*: Any change in form of the software that is stored in a revision control system. A revision is technically the state at a point in time of the entire tree in the repository.
- *Release*: a version of the software that has met a defined quality level and can be distributed publicly. Software releases are defined as:
    - *Alpha*: initial public release of a partially stable revision that has been tested on a selected set of architectures. It does not require thorough testing with all the examples.
    - *Beta*: public release of a revision that is stable on the designated architectures and tested with the planned examples.

Work plan for 2012-2013

The initial work plan is focused on the set up of the BFM System and the tools for its distribution and maintenance.

ACTIVITY 1

Web Tools and Revision Control System (RCS) **Duration: 24; Responsible: CMCC**	
Rank	**Description**
0	Opening of the new BFM web site
1-2	Maintenance of RCS web site

ACTIVITY 2

Core Package (STANDALONE) **Duration: 24; Responsible: M. Vichi**	
Rank	**Description**
0	Analysis of the standard BFM STANDALONE structure and parameterizations. Definition of tasks, workload sharing and time schedule. Preparation of the alpha release.
1	Definition and set-up of standard examples (pelagic shallow system, laboratory culture, mesocosm, etc.) for the alpha release
1	Documentation of the alpha release
1	Test of the alpha release in the STANDALONE examples
1	Publication of the alpha release of BFM STANDALONE
2	Revision of feedbacks. Publication of the beta release of BFM STANDALONE.

ACTIVITY 3

BFM_POM1D **Duration: 24; Responsible: M. Zavatarelli**	
Rank	**Description**
1	Preparation of the technical documentation and standard examples
1	Release of BFM_POM1D with V5 (alpha release)
2	Addition of more examples (including paleoceanography)

ACTIVITY 4

BFM_POM3D **Duration: 24; Responsible: M. Zavatarelli**	
Rank	**Description**
1	Preparation of the technical documentation related to coupling issues between BFM and POM
1	Release of BFM_POM3D with BFM V5 (alpha release)
2	Implementation of academic (and realistic) case studies

ACTIVITY 4

BFM_NEMO **Duration: 24; Responsible: M. Vichi**	
Rank	**Description**
1	Preparation of the technical documentation and standard examples
1	Release of BFM-NEMO with BFM V5 (alpha version)
2	Implementation of academic case studies

ACTIVITY 5

BFM_OPATM **Duration: 24; Responsible:P. Lazzari**	
Rank	**Description**
1	Preparation of the technical documentation and standard examples
1	Release of the OPATM-BFM with BFM V5 (alpha version)
2	Implementation of academic case studies

ACTIVITY 6

New Features to be developed		
Rank	**Description**	
2	Coupling with GOTM	
2	Benthic System	
2	Sea ice biology	
3	Coupling with SHYFEM	
3	Integration with food web ecological models	