

# Meeting on NEMO assimilation component strategy

Meeting on NEMO assimilation component strategy  
Objectives of meeting

During the last NEMO Steering Committee (20 January 2009), there was a discussion on the strategy for the development of the next generation of assimilation methods with NEMO. It was agreed that:

- the sustainable development of the NEMO Assimilation Component is of high importance and priority for all consortium members
- the development of NEMOTAM must be ensured
- the ?NEMOVAR? consortium (now existing as a Memorandum of Understanding between ECMWF, Met-Office and CERFACS) identifies the resources to develop a data assimilation code for use with NEMO. This is an important step towards the sustainable development of the NEMO Assimilation Component
- it is necessary to begin the process of integrating an assimilation component in NEMO
- a strategy, taking in account all the major developers of this Assimilation Component, has to be elaborated as soon as possible.
- a meeting between these NEMO Assimilation Component developers should be held to discuss the best way forward and clarify the strategy.

C. Lévy and M. Bell were asked to propose the detailed scope and to organize the meeting.

Expected outcome

The expected outcome of this meeting is the definition of a strategy, taking in account all the major developers of this Assimilation Component. The aim of this strategy should be to establish rapidly the new Assimilation component of the NEMO reference.

Expected attendees, chair and secretary

The expected attendees are technical experts representing each of the groups willing to contribute to the sustainable development of the ?NEMO Assimilation Component?, i.e. not all the teams involved in the use of data assimilation within NEMO, but only those who intend to bring some expertise and manpower in the choices and development of this NEMO Assimilation component.

Expected attendees include:

- One or more technical expert representatives from each of the members of the NEMO Consortium (CNRS, Mercator Océan, Met-Office, NERC-NOCS):
- One or more technical expert representatives from each of the members of the NEMOVAR consortium (CERFACS, ECMWF, Met-Office)
- Technical expert representatives from other groups developing substantial assimilation capabilities for NEMO (INGV- Bologna, LPO-Brest, LEGI ?Grenoble? list to be completed)

It is proposed that the roles of chair and secretary are taken by Eric Blayo and either Mike Bell or Adrian Hines (exact distribution of roles to be decided).

Organisation, likely date / venue

After gathering all the inputs from the community using this forum, the chair and secretary will organize the meeting, inviting participants who will contribute most to the meeting and represent the various interests of the community

The meeting will take place in Paris over two days, starting at lunchtime on the first day, and finishing at lunchtime on the second day.

The first day will be devoted to short presentations (10-15mn max) from selected speakers (selection by chair and secretary and Gervan Madec as NEMO Scientific Leader) on the present assimilation systems using NEMO, ongoing developments and workplans, and proposed contributions to the development of a common NEMOASSIM component. This first day will end with an introduction to the questions that will be addressed on the second day and agreement on

how to organise the discussions.

The second day will probably start with a few groups working in parallel to answer the specific questions. A preliminary list of questions is:

- What is the detailed description of the NEMOASSIM component (i.e. the new component to be implemented in the NEMO reference)? What is the best strategy to efficiently assemble this puzzle (routines already existing, or to be developed, etc) ?
- What is the best way to complete and include a first version of the NEMOTAM component at this point? Do we need all the sub-components (dynamics, sea-ice, tracers) to be coded ? Which priorities ? What is the technical option in order to keep NEMOTAM up-to-date with the direct components?
- What could be the reference configurations to be used to validate the NEMOASSIM components (including the validation tests)?

The conclusions from the meeting will be drafted by the chair and secretary. They will be submitted to the meeting participants, the NEMO Steering Committee, and the NEMOVar Consortium.

The meeting will take place in Paris on 22 and 23 June

This forum is now open for all comments suggestions and expressions of intention to participate to this meeting.

Mike Bell and Claire Levy

No  
Yes