



Session 5: introduction Perspectives for NEMO shared reference and its future developments

https://forge.ipsl.jussieu.fr/nemo/wiki/Users

Source Users Developers Community My Page Contact

wiki: Users

Start Page Index History Bookmarks Restore Form Watch Page

Welcome to the NEMO Users area

NEMO (Nucleus for European Modelling of the Ocean) is a state-of-the-art modelling framework of ocean related engines for oceanographic research, operational oceanography, seasonal forecast and (paleo)climate studies.
The general description of the model and its components, the governance of its developments, the NEMO Consortium... is available on the NEMO official public web site: www.nemo-ocean.eu

Here you'll find how to download and install the NEMO reference code, to build our reference configurations, to find information, documentation, so as all the tools to interact with the NEMO community.

Documentation
Ask for help
Keep up to date with the NEMO newsletter
Interested in contributing to the NEMO reference?

Documentation

Quick start for beginners Advanced use for skilled people Other resou

Installation instructions

- Download NEMO reference code and configurations
- Description of NEMO directory tree
- Extract and install XIOS
- Setup your architecture configuration file
- Compile and create NEMO executable
- More options
- Default behaviour
- Tools used during the process
- Examples
- Running the model
- Viewing and changing list of active CPP keys

If you want to make your own NEMO configuration

- Setting up a new configuration
- Other Pre-processing utilities

How to cite NEMO in your publications

- NEMO reference manual and bibliography, and misc. docs
- Glossary
- Release Notes?

Available interfaces

- Using AGRIF for embedded NEMO
- On line biogeochemistry coupling with other models
- SAS, ...
- With data assimilation
- Inputs-Outputs (using XIOS)

Reference Configurations update!

- AMM12
- CID_PAPA
- GYRE_BPM
- GYRE_PISCES
- ORCA2**
 - ORCA2_LIM3_PISCES
 - ORCA2_OFF_PISCES
 - ORCA2_OFF_TRC

Vienna | Austria | 7-12 April 2019

INFORMATION | PROVISIONAL PROGRAM

Programme Groups:

OS – Ocean Sciences

Programme Committee login

Subprogramme Groups:

- OS1 – Ocean General Circulation and Climate
- OS2 – Coastal Oceans, Semi-enclosed and Marginal Seas
- OS3 – Ocean Biogeochemistry and Biology
- OS4 – Global ocean processes and oceanographic techniques

• The new sea ice model **SI3**: a European C. Rousset, and NEMO sea-ice Working

- Users/Agenda/2017-09-13 (air)
 - Users/Agenda/2017-10-17 (air)
 - Users/Agenda (air)
- 2018-09-11
- Users/Reference Configurations (air)
 - Users/Model Interfacing (air)

wiki: Users / Agenda / 2018-07-11

NEMO development strategy Version 2: 2018-2022

NEMO Consortium

EUROPEAN COMMISSION
RESEARCH EXECUTIVE AGENCY

Space Research

Ref. Ares(2018)3797249 - 17/07/2018

Subject: Proposal-H2020-E01-2018- 821926-IMMERSE

Dear Mr Le Sommer,

First of all, I would like to congratulate that your proposal has been favourably evaluated and I am

Announcement 4.0 beta 1

Last edition on **2018-08-27 13:56 CEST** by **nicolasmartin**

The new 4.0 beta release of NEMO is now available for beta testing, the official 4.0 release is scheduled for end 2018.

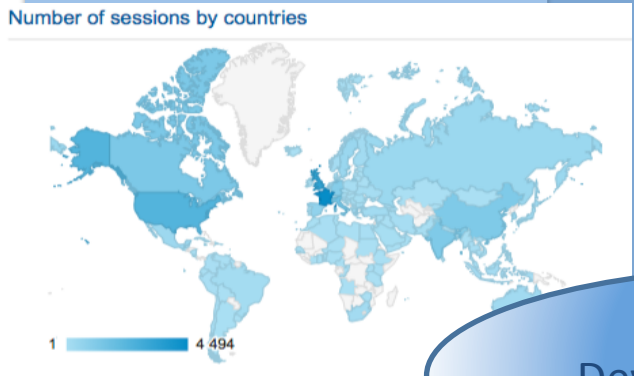
The users and projects willing to make preliminary tests and contribute to the reliability of the future 4.0 release are very welcome to start testing this new 4.0.beta version.

This page gathers all the information needed for a quick start, and all feedbacks are welcome, see below.

12 October 2018

NEMO Consortium and Community

NEMO community :
research
and operational
applications

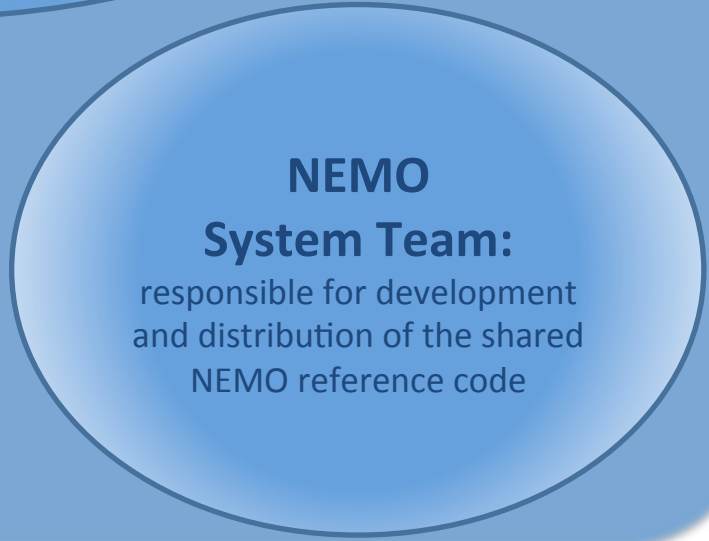
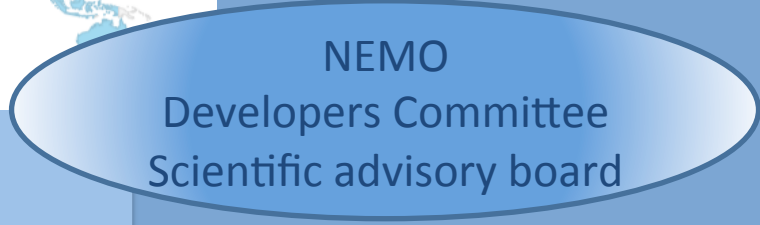


More than 1000
registered users and
~ 200 projects
worldwide :

<http://www.nemo-ocean.eu/About-NEMO/Projects>



NEMO
Consortium



NEMO development organised within a yearly workplan
NEMO System Team: the core team of developers



Groups at work

NEMO Scientific Advisory Board –
 Developer’s Committee : meets twice a
 year to give advices on R&D plans
 (short and long term)

https://forge.ipsl.jussieu.fr/nemo/wiki/DevelopersCommittee

Source Tickets Users Developers Community Contact

wiki: DevelopersCommittee

Developer's Committee

Last edition: 2018-06-11 17:29 CEST by clevy

Role

NEMO Developer's Committee is the Scientific Advisory board of NEMO. As stated in the Consortium Agreement:

The role of the *Developers* Committee (as defined in the Consortium Agreement) is to:

1. give advice on research developments plan;
2. co-ordinate developments planned by scientists outside the NEMO System Team, and in particular to coordinate them with the Work-Plan for the NEMO System Team;
3. set up working groups, to appoint their leaders and to validate the report drafted by the working group;
4. propose opportunities for funding to the Steering Committee.

Members of the Committees

- Role
- Members of the Committees
- 2018
- 2017
- 2016
- 2015
- 2014
- 2013
- 2012
- 2011
- 2010
- 2009
- 2008
- 2007
- 2006
- 2005

https://forge.ipsl.jussieu.fr/nemo/wiki/WorkingGroups

Source Tickets Users Developers Community Contact

wiki: WorkingGroups

Working Groups

Last edition: 2018-09-12 22:56 CEST by nicolasmartin

Refresh

Active	Standby	Ended
Adaptive Grid Refinement In Fortran (AGRIF) (2014-)	Test Cases ^{update!} (2015~)	Configuration Manager ^{update!} (2014-2017)
High Performance Computing ^{update!} (2015-)	(Add card)	Data Assimilation ^{update!} (2009~2015)
Sea Ice modelling Integrated Initiative (SI3) ^{update!} (2017-)		Louvain-la-neuve sea Ice Model (LIM) (2013-2014)
Tracers in Ocean Paradigm (TOP) ^{update!} (2007-2010, 2018-)		Simplification-Robustness (2014-2016)
(Add card)		Tangent and Adjoint Model (TAM) ^{update!} (2009-2010)
		Wave Coupling (2014-2017)

NEMO Working Groups



Recent changes (1)

Recent changes in NEMO:

- Release 4.0 : coming next
- New sea-ice European model coming next
- Increasing importance of biogeochemistry coming next
- Test cases
- Documentation and web access



Collaborative Environment on-line: improvements and new features:

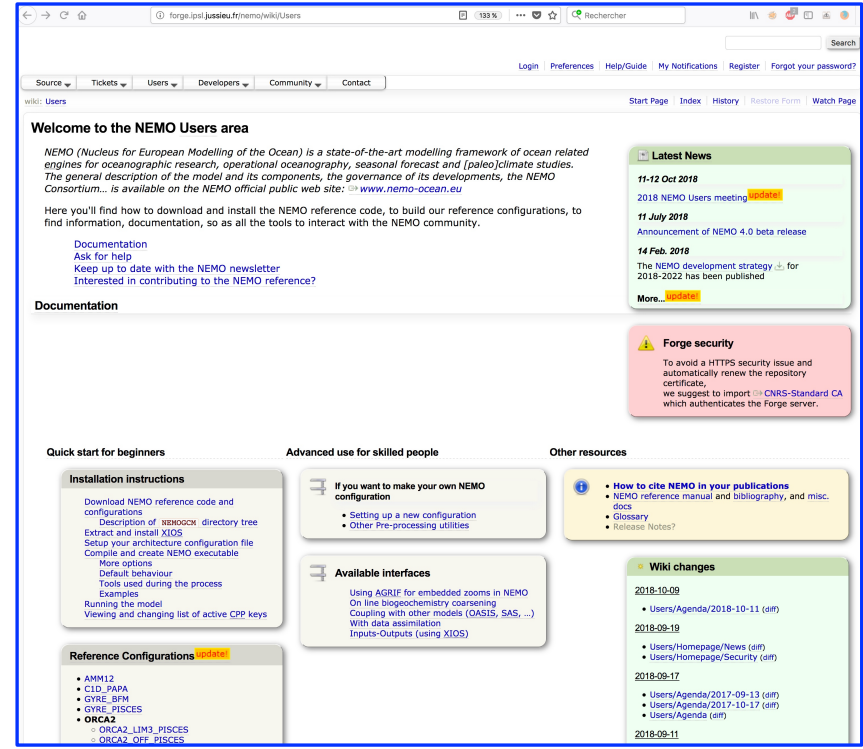
Simplification, streamlining and personalization

New web portal

publicising NEMO (all audiences):



Collaborative platform: forge redesigned, with dedicated wiki sections (users, developers, System Team)



Improvements for users:

- Svn repository : new and standard organisation (src directory, README files...)
- Test cases in a separate repository to foster external contributions (in nemo 4.0 only)
- Documentation: user guide and reference manual available locally and online in HTML and PDF
- Repository and documentation in open access: no login needed anymore, except to write in forums
- Forums for users requests and a mailing list for NEMO newsletter only



IMMERSE H2020 project: improving NEMO ocean model for improving Copernicus Marine Environment Service (CMEMS)

IMMERSE will accelerate implementation of NEMO Development Strategy over the next 4 years (2019-2022)

First H2020 project including developments of NEMO up to their integration in NEMO shared reference (nemo release 4.2)

- Key activities include developments of NEMO in terms of
 - Numerical kernel (WP3)
 - Efficient use of HPC (WP4)
 - Representation of physical processes (WP6)
- Improvements will be demonstrated through academic demonstration cases and in high resolution prototypes CMEMS systems.

IMMERSE will also

- Improve the integration of AGRIF with NEMO
- Provide a protocole for sharing NEMO configurations among users

IMMERSE involves 14 partners across Europe.
More to come on IMMERSE website :
<http://immerse-ocean.eu/> (will open in Dec 2018)





« Including developments of NEMO up to their integration
in NEMO shared reference »

If you develop a new feature in NEMO, and think it may be of interest for the community, then it may be implemented in next version of shared NEMO reference.

The following tasks will need to be completed :

- Compliance with coding rules
- Compliance with code organisation (no duplicates)
- Not destructive of HPC performances
- Documentation available (in the code, on-lien and reference manual)
- The code does what is expected (quality control of the code)
- The results are as expected (quality control of the scientific results)
- Code is compatible with existing or under development features (sustainable development)

Tasks listed above need an effective contribution from the initial developer

How to go further:

Information on NEMO development workflow: <https://forge.ipsl.jussieu.fr/nemo/wiki/Developers>

Discussion needed with NEMO Developer's Committee to include this as an action of the work plan.

This meeting is likely to be the last “NEMO Users meeting” organised as a standalone meeting:

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OS – Ocean Sciences

[Programme Committee login](#)

Subprogramme Groups:

- OS1 – Ocean General Circulation and Climate
- OS2 – Coastal Oceans, Semi-enclosed and Marginal Seas
- OS3 – Ocean Biogeochemistry and Biology
- OS4 – Global ocean processes and oceanographic techniques

Call for abstracts for this session
will open from
22 Oct. 2018 to 10 Jan. 2019

Your help to advertise is
welcome!

Claire Lévy

OS4 – Global ocean processes and oceanographic techniques

OS4.1

Open session on ocean processes and techniques

Convener: Remi Tailleux

Co-Convener: Karen J. Heywood

▣ [Session details](#)

OS4.2/AS*/G*

Tides (co-organized)

Convener: Mattias Green

Co-Conveners: Richard Ray, Michael Schindelegger, Sophie-Berenice Wilmes, Philip Woodworth

▣ [Session details](#)

OS4.3/AS*/NP*

Internal Gravity Waves (co-organized)

Convener: Alvaro de la Camara

Co-Conveners: Ulrich Achatz, Riwal Plougonven, Bruno Ribstein, Chantal Staquet

▣ [Session details](#)

OS4.4/AS*/NH*/NP*

Surface Waves and Wave-Coupled Effects in Lower Atmosphere and Upper Ocean (co-organized)

Convener: Alexander Babanin

Co-Conveners: Francisco J. Ocampo-Torres, Miguel Onorato, Fangli Qiao

▣ [Session details](#)

OS4.5/NP6.9

The realm of (sub)mesoscale dynamics: variability, impact, and new challenges (co-organized)

Convener: Bàrbara Barceló-Llull

Co-Conveners: Angel Amores, Bruno Buongiorno Nardelli

▣ [Session details](#)

OS4.6

Numerical modelling of the ocean : new scientific advances in ocean models to foster exchanges within NEMO community and contribute to future developments (co-sponsored by NEMO)

Convener: Claire Levy

Co-Conveners: Mike Bell, Jerome Chanut, Dorotea IOVINO, Julien Le Sommer

▣ [Session details](#)