



HORIZON 2020 IMMERSE

(Grant Agreement 821926)

Improving Models for Marine EnviRonment SErvices

Deliverable D2.4 *Public*

The NEMO v4.2 Release Candidate version has been officially announced to NEMO users on the 16 June 2021 on the NEMO users forum for calling beta testers :

https://nemo-ocean.discourse.group/t/announcing-the-4-2-release-candidate-and-call-for-b eta-testers/86

The NEMO 4.2 Release Candidate sits on the trunk of NEMO repository, starting at revision 15005 : <u>https://forge.ipsl.jussieu.fr/nemo/log/NEMO/trunk?rev=15005</u>

NEMO		Q = 😡
Announcing the 4.2 Release Cand	lidate and call for beta testers	
ClaireLevy	23m	16 Jun
The next NEMO release (4.2) is scheduled for end of 2 available for beta testers. This version includes a num and of HPC (see details below). It has been widely tested by the NEMO System Team know some bugs are likely to still be in there.	ber of major developments in terms of sciences	1 / 1 16 Jun
Those bugs will now be found by using this 4.2 Releas longer simulations. It will start with the demonstrators of the H2020 IMMEI other beta testers in the NEMO community.		
The work proposed to beta testers is to start using this the results to what they are using now to identify the e using this new version, with or without all the new feat The benefits for the beta testers is to get some knowle different from 4.0, and moreover to make sure that this projects, including all the new features. The cost is to spend some time on this validation work without any guarantee that possible problems will be s and the support will be limited once origin of bugs are	errors and hopefully the progress gained while tures. adge on the coming 4.2 release, which is very a 4.2 release will be immediately usable for their c: to identify possible bugs and their origins, solved immediately: this 4.2RC is not a release,	22m ago
If you are willing to be part of this 4.2RC beta testi phase for NEMO 4.2 RC.		
The NEMO System Team		
Overview of new features of the 4.2RC : improvem	ents since 4.0	
Kernel		
 HPG schemes: new higher order hpg scheme (S use with terrain following coordinates (In_hpg_dj Quasi Eulerian Coordinates 		
AGRIF		
 Versatile change of vertical coordinates in zooms Support zooms crossing North Fold or East-Wes Online initialization of zooms from parent fields New pre-processing tool for creating nested model 	st periodic boundaries (beta)	
Air sea interactions		
Current feedback Integration of Atmospheric Boundary Layer 1D n Improvement to wave forcing Improvements to bulk formulae Wave coupling	nodel	
Vertical physics		
 Improvement to OSMOSIS vertical physics Mass-flux convection scheme 		
Sea-ice SI3, icebergs, ice-shelves:		
new EAP rheologyEnergy and conservation diagnostics		