

10:04:21 From Inge Deschepper to Everyone:
<https://docs.google.com/document/d/1bL0hLaCUoImEDFpv3-KrjkYq2090WTHlKm74rxWUw1Q/edit?tab=t.0>

10:31:15 From Susan Allen (she/her) to Everyone:
Also Delft3D used in Civil Eng depts

10:32:54 From Fred Dupont to Everyone:
Oceananigans is MIT-GCM written for Julia

10:34:01 From Fred Dupont to Everyone:
Home · Oceananigans.jl

10:34:49 From Nicolas Lambert to Everyone:
In CCCma, we use NEMO + GEM in CanESM6.

10:34:57 From Nicolas Lambert to Everyone:
Coupled.

10:35:46 From Susan Allen (she/her) to Everyone:
UBC no ice but BGC for everything including operational'

10:38:30 From Susan Allen (she/her) to Everyone:
Waterman (UBC) and Klymak (UVic) MITgcm I think for process studies.

10:43:39 From RatsimandresyA to Everyone:
DFO (NL) NEMO for aquaculture application

11:05:41 From SterlinJ to Everyone:
Replying to "This message has been deleted":
There was a publication on SLIM added to the UClouvain repository in 2024 (dial)

11:12:16 From Duo Yang to Everyone:
A small addition to Nicolas' comments, we've activated the iceberg model in the NEMO-only context, the evaluation is underway. Incorporation of the iceberg model is under consideration. Are there other groups using the iceberg model right now?

11:13:10 From Michael Dunphy to Everyone:
DFO port models are currently moving from 3.6 to 4.2, there are a lot of changes, but we expect 4.2 to 5+ will be easier. Early tests show 4.2 is about 30-40% faster than 3.6

11:16:23 From Madhurima Chakraborty to Everyone:
Yes, the U of Manitoba group is using the NEMO-ICB, please check the link for more details. <https://docs.google.com/document/d/1bL0hLaCUoImEDFpv3-KrjkYq2090WTHlKm74rxWUw1Q/edit?tab=t.0>
And I'd be happy to answer if you have more questions about

it.

11:17:15 From Laura Bianucci, DF0 (she/her) to Everyone:

Hi all, I need to leave since I only found out about this workshop this morning and I have to jump to other things. So my comment would be to improve the distribution list, especially if the objective is to add non-NEMO modellers 😊 (If I ever received emails about the seminars, I may have missed/ignored them due to the NEMO-focus). Very interesting ideas and it would be great to get a broader Canadian ocean modelling community established. Thank you organizers!

11:19:47 From Laura Gillard to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

Yes, UAlberta using the iceberg model – work from Juliana Marson. She has some great publications I can share with you regarding this.

11:22:39 From Duo Yang to Everyone:

Replying to "Yes, the U of Manitoba group is using the NEMO-ICB...":

Thanks, I just wonder their status. Your link pointed to this forum workshop document?

11:22:46 From Laura Gillard to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2021JC017542#>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2023JC020697>

<https://agupubs.onlinelibrary.wiley.com/doi/full/10.1029/2018GL077676>

11:23:25 From Madhurima Chakraborty to Everyone:

Replying to "Yes, the U of Manitoba group is using the NEMO-ICB...":

Yes.

11:23:41 From Fred Dupont to Everyone:

Replying to "Yes, the U of Manitoba group is using the NEMO-ICB...":

GitHub – pmlmodelling/NEMO4.0-FABM

11:24:37 From Madhurima Chakraborty to Everyone:

<https://sites.google.com/view/portal-ocean/portal>

11:24:38 From Laura Gillard to Everyone:

Replying to "Yes, the U of Manitoba group is using the NEMO-ICB...":

@Duo Yang I also responded directly to your message and provided you with some papers from Juliana Marson. Ualberta runs icebergs live with nemo as well.

11:25:23 From Susan Allen (she/her) to Everyone:

Answer to Helen, beyond pressure error, also getting the vertical velocity correct at topographic curvature, getting the photoplankton light/growth as layers change thickness

11:26:12 From Duo Yang to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

Thanks, I will have a read of the papers. I'm currently working on the Antarctic icebergs.

11:27:48 From Susan Allen (she/her) to Everyone:

<https://agupubs.onlinelibrary.wiley.com/doi/10.1029/2001JC000978>

11:30:17 From Laura Gillard to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

@Duo Yang I have to check. We have a global experiment now, and I am curious what we are doing for Antarctica for runoff and icb. I haven't used this experiment yet... I'll see if I can find out asap

11:35:31 From Yarisbel Garcia Quintana to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

I believe that the eORCA025 runs have ICB for Antarctica, not sure for runoff ..

11:35:57 From Yarisbel Garcia Quintana to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

https://docs.google.com/spreadsheets/d/19qEFmjSxgwy_TDJE5fn-0hx-fpYK_gjRlGIeV5NsqfY/edit?gid=1033244140#gid=1033244140

11:36:07 From Paul Myers to Everyone:

It is an option - we have it turned on it our eORCA025 runs

11:38:32 From Michael Dunphy to Everyone:

Quick question for the group (that doesn't need discussion) -- I'm looking for the coordinates.nc corresponding to ORCA05, it's not available online, does anyone have it?

11:41:04 From Inge Deschepper to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

I'm assuming you are asking for eOrca025. We have it at the Alberta group if you want to email Clark or Tahya. We can also bring up coordinate file sharing in the discussion in general

11:41:21 From RatsimandresyA to Everyone:

Anybody is using NEMO for a small domain? (for example small bay application)

11:41:50 From Michael Dunphy to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

Not eORCA025, I'm specifically looking for ORCA05 coordinates.nc

11:42:38 From Xianmin Hu to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

How about this: NEMO ORCA05 Test Data

11:42:42 From Yarisbel Garcia Quintana to Everyone:

Replying to "Anybody is using NEMO for a small domain? (for exa...":

Like a regional configuration?

11:43:37 From RatsimandresyA to Everyone:

Replying to "Anybody is using NEMO for a small domain? (for exa...":

smaller than regional? (like the Port model that Michael Dunphy has developed).

11:44:18 From Michael Dunphy to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

@Xianmin Hu -- that is the closest I can find online as well, it has the single-precision numbers in a mesh-mask, but not the double-precision as in coordinates.nc

11:45:30 From Yarisbel Garcia Quintana to Everyone:

Replying to "Anybody is using NEMO for a small domain? (for exa...":

We have done nesting in the past, using AGRIF, over a specific region, but I believe that the smallest one we have done in over the Lab Sea. I tried to implementing it over NAresStrait but I had issues with the ice model

11:46:56 From Xianmin Hu to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

I created ANHA2 years ago but not sure whether the coordinate file is still there :). People in UofA could have a check.

11:47:12 From Paul Myers to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

We should still have it

11:48:46 From Michael Dunphy to Everyone:

Replying to "Anybody is using NEMO for a small domain? (for exa...":

On AGRIF, we are looking into AGRIF for the port models in 4.2

11:49:31 From Xianmin Hu to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

Another option, I think it's possible to generate orca grid using GRIDGEN tool shipped with NEMO.

11:52:16 From Paul Myers to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

If not, the German group at GEOMAR uses ORCA05 a lot – so I'd suggest contacting them

11:53:05 From Michael Dunphy to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

@Xianmin Hu GRIDGEN and the docs associated with it says that it needs coordinates.nc from ORCA05 to generate ORCA025 and higher. It does not produce the grid from scratch

11:53:28 From Michael Dunphy to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

@Paul Myers OK – thank you for this pointer!

11:56:47 From Fred Dupont to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

Dany Dumont et Bruno Tremblay are working on rheology in the MIZ

11:57:24 From Fred Dupont to Everyone:

Replying to "A small addition to Nicolas' comments, we've activ...":

I am working on wave-ice interactions myself.

12:03:18 From Damien Ringeisen (ECCC/CCCma) to Everyone:

Replying to "still the wrong place for sea ice :(":

Yes, Bruno and Dany do! They work outside of NEMO, but working with them can inform us about what we would like to implement

12:09:40 From Xianmin Hu to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

@Michael Dunphy You can use the orca05 mesh file (single precision) as the input for GRIDGEN, and re-create the ORCA05 mesh without increasing resolution. I didn't check the result but it did work.

12:12:02 From Michael Dunphy to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

@Xianmin Hu this is true; the thing I'm working on requires the double precision though

12:13:18 From Xianmin Hu to Everyone:

Replying to "Quick question for the group (that doesn't need di...":

it produces double precision

12:37:47 From RatsimandresyA to Everyone:

Replying to "I added a section at the bottom. We will also try ...":

On the top of the "Chat" window, there is a "...", just click on it and it will show whether you want to save the chat.

13:22:39 From Laura Gillard to Everyone:

Very interesting! applications for tracers for FW

13:37:01 From Laura Gillard to Everyone:

Does anyone have a resource (or several) out there that compares the different biogeochemical models that people are using, from what i see on the document there are : CanOE, BiGCLIM, BLING SMELT

13:37:40 From Paul Myers to Everyone:

Inge has a comparison of BLING and BiGCIIM in the HBC

13:39:14 From Laura Gillard to Everyone:

That would be fantastic - thanks Susan!

13:40:39 From dgreenbe to Everyone:

Smith, Stuart D., and E. Peter Jones. "Isotopic and micrometeorological ocean CO2 fluxes: Different time and space scales." Journal of Geophysical Research: Oceans 91.C9 (1986): 10529-10532.

13:57:04 From Jim Christian to Everyone:

A koshionari tale: <https://www.sciencedirect.com/science/article/pii/S0967063793900776>

14:01:24 From Fred Dupont to Everyone:

Note that vertical velocity for (e.g., nutrient replenishing) depends on the choice of the vertical coordinate: z-level tends to be noisier than sigma...

14:29:42 From Susan Allen (she/her) to Everyone:

https://join.slack.com/t/nemo-canada/shared_invite/zt-36eslc7j7-EeDa_SLkuBmpbqC8mC0n3g

14:29:51 From Susan Allen (she/her) to Everyone:

Your slack invite above

14:29:55 From Laura Gillard to Everyone:

Sorry Fred, I missed the first slide, you were talking about development with NEM05 correct? If that's so could someone please remind me, does NEM05-AGRIF run with icebergs in and out of the AGRIF domain?

14:30:38 From Tahya Gibbons to Everyone:

Replying to "Sorry Fred, I missed the first slide, you were tal...":

As far as I am aware Laura, it has not been implemented with AGRIF in any version yet

14:41:51 From Nicolas Lambert to Everyone:

AGRIF: You should now be able in NEM05.0 to allocate CPUs for AGRIF child so it runs in parallel. We didn't test that.

14:44:39 From Nicolas Lambert to Everyone:

Replying to "AGRIF: You should now be able in NEM05.0 to alloca...":

That's what I meant Michael, Thanks

14:48:23 From Susan Allen (she/her) to Everyone:

As a member of the "public", yes please... mirror.

14:49:30 From JI LEI to Everyone:

I remember Michael and others had git repos on public git but had to drop it for some reason?

14:52:03 From Stephanie Taylor to Everyone:

GitLab.com (which we were using) made public groups with more than a couple users available only to paying users

14:52:27 From Michael Dunphy to Everyone:

Replying to "GitLab.com (which we were using) made public group...":

Private

14:53:49 From Michael Dunphy to Everyone:

Private and public repos is a headache for issue/MR trackers because you'll have to disable them on one side, or spend more attention than anyone has to deal with unmatched issue numbers between the two...

14:53:57 From Laura Gillard to Everyone:

perhaps a basic question – has anyone done twin experiments with 4.2 and 5 to see if there are any significant difference to the output?

14:54:13 From JI LEI to Everyone:

Replying to "GitLab.com (which we were using) made public group...":

That rings the bell, I guess there is a cost for this mirror thing

14:55:07 From Laura Gillard to Everyone:

Replying to "perhaps a basic question – has anyone done twin ex...":

Nicolas answered my question :)

14:55:11 From Michael Dunphy to Everyone:

Replying to "GitLab.com (which we were using) made public group...":

If the mirror is strictly public, it's free. So we could do a strict mirror to public, but any references to issues on the internal one will be inaccessible. So it's not a great setup

14:57:35 From Susan Allen (she/her) to Everyone:

My comment: I'm thinking we will go directly to 5, not through 4.2. Likely starting January 2027.

14:58:54 From Michael Dunphy to Everyone:

@Fred Dupont what we did there was set the Length scale to the grid scale, and then set the velocity scale as to match the previous value

14:58:57 From Laura Gillard to Everyone:

Fred – I think that would be a good thing to mention or include it in the document as something to check for 4.2 to 5 version checks

15:01:31 From Jim Christian to Everyone:

Yes it appears that the latest CanESM code is on the public-facing Gitlab.

15:16:43 From Jim Christian to Everyone:

<https://github.com/pmlmodelling/NEMO4.0-FABM>

15:16:55 From Jim Christian to Everyone:

<https://cdn-assets.inwink.com/e2ed7ccb-dbb5-4dc9-9b30-9a6876d1fc19/aa24209b-6893-41eb-af45-abb14afad593>

15:21:21 From Duo Yang to Everyone:

I'd just like to comment that incorporation of a new NEMO version technically might be much quicker than tuning. We've spent a lot of time to test various parameterization schemes and parameters in NEMO4, including v4.0.3 and 4.2.

15:33:04 From Fred Dupont to Everyone:

<https://nemo-canada.slack.com/> is blocked by my firewall :(

15:33:29 From Fred Dupont to Everyone:

this is new. It was working a few months ago

15:33:33 From Laura Gillard to Everyone:

Would an email list be redundant for updates? Similar to what Tahya and Inge do for the seminar series?

15:33:38 From JI LEI to Everyone:

Replying to "<https://nemo-canada.slack.com/> is blocked by my fi...":

Think we are all on it, that was created couple of years ago

15:34:48 From Damien Ringeisen (ECCC/CCCma) to Everyone:

Replying to "this is new. It was working a few months ago":
We had a discussion today in section meeting about this, management is going to ask to remove the block

15:35:02 From Natasha Ridenour to Everyone:

maybe if it wasn't too often? it could also include job postings as well?

15:35:18 From Nicolas Lambert to Everyone:

Funny story, Slack is now block by our firewall 😞.

15:35:27 From Natasha Ridenour to Everyone:

lol, oh no....

15:36:16 From Fred Dupont to Everyone:

I am still using my old ferret!

15:37:05 From Natasha Ridenour to Everyone:

one note on the email list, is that someone would have to coordinate and write it. There could be a group of a few people to share the work so it doesn't fall just on one person

15:37:19 From Jim Christian to Everyone:
<https://hpc.llnl.gov/software/visualization-software/visit>

15:40:23 From Yarisbel Garcia Quintana to Everyone:
<https://github.com/jepler/poc>

15:40:30 From Luiz to Everyone:
<https://github.com/PORTAL-CEOS/ANHALYZE>

15:42:16 From Duo Yang to Everyone:
AI Companion prevented me from unmuting :).

15:46:29 From dgreenbe to Everyone:
Previous newsletters may be found on the CNC-SCOR web site.
https://cncscor.ca/site/scor?language=en_CA

15:47:00 From dgreenbe to Everyone:
If you wish to subscribe to this newsletter or cancel your
subscription, please visit the website:
<http://www.mailman.srv.ualberta.ca/mailman/listinfo/cnc-scor>

15:49:28 From Amber Holdsworth to Everyone:
as soon as you make the meeting hybrid DFO people have to
check that hybrid box in our travel application and then provide
justification for attending in person. Not saying that you shouldn't
have hybrid meetings. But you might consider in-person only

15:50:52 From Stephanie Taylor to Everyone:
True, but travel is getting harder to get approved for, even
if there is no hybrid option

15:51:05 From Amber Holdsworth to Everyone:
true

15:53:50 From Laura Gillard to Everyone:
Question for the academics - could grad students get credit
for courses at all if they did an internship/coop say with the govt?
UAlberta used to have a "fieldschool" at ECCC which is no long
operating, but the students could get credit for this (undergrad)

15:59:18 From Fred Dupont to Everyone:
are there git classes at university/college?

15:59:54 From Laura Gillard to Everyone:
Replying to "are there git classes at university/college?":
they have tutorials, but they are usually "introduction" and
don't get into the weeds to much

16:00:02 From Laura Gillard to Everyone:
Replying to "are there git classes at university/college?":

like a 2 hr seminar

16:00:36 From Heather Andres to Everyone:

Replying to "are there git classes at university/college?":
I can speak to this to say yes, that computer science students at MUN get a strong exposure to git. Those are about the only students we can hire in NL, since other programs don't have coop programs.

16:00:36 From JI LEI to Everyone:

using git is not much to learn, but more like a habit hard to get into...

16:00:38 From Fred Dupont to Everyone:

Replying to "are there git classes at university/college?":
interesting! Susan and Paul can pass this info up?

16:01:42 From Fred Dupont to Everyone:

Replying to "are there git classes at university/college?":
I agree with Heather that IT science or engineering program covers git well

16:02:42 From Laura Gillard to Everyone:

Replying to "are there git classes at university/college?":
I wonder if more undergraduate programs are adding version control more into curriculums.. I am not sure at Ualberta for our dept. Earth and atmospheric sciences. – definitely something that should be introduced when relevant!

16:03:09 From Heather Andres to Everyone:

Replying to "are there git classes at university/college?":
I don't think physics students get any exposure at MUN – I don't think they have explicit coding exposure, either, but I could be wrong.

16:05:38 From Fred Dupont to Everyone:

so actually how many are you in the room (now and at the peak)?

16:06:05 From Inge Deschepper to Everyone:

17 in person

16:06:22 From Inge Deschepper to Everyone:

12 in the morning

16:10:40 From Laura Gillard to Everyone:

If anyone has any questions, please post them here, and if someone asks a question you like, give it a thumbs up so we know its popular! :)

16:12:15 From Laura Gillard to Everyone:

If we have time, I'd love to follow-up with Roberta. I'd love to hear more about navigating the two body problem or any tips!

16:19:30 From Fred Dupont to Everyone:

Natasha is completely right about government hiring!

Laura Gillard: 👍

16:27:13 From Michael Dunphy to Everyone:

My limited experience on pools is that the pools get depleted (folks get hired, or folks get jobs elsewhere) before the question of staleness comes up

Laura Gillard: 👍

16:28:17 From Heather Andres to Everyone:

Replying to "My limited experience on pools is that the pools g...":

Yes, I think that's one basis of "staleness". If it's been too long, hiring managers figure the chances that the people in the pool are still available is low and don't bother.

Michael Dunphy: 👍

16:41:29 From Laura Gillard to Everyone:

10000% Natasha. Pressure with contract positions and performance – thank you for your honesty!

Natasha Ridenour, Fiona Davidson: ❤️

16:44:06 From Laura Gillard to Everyone:

Great answers that round – thank you!

Fred Dupont: ❤️

16:48:37 From Laura Gillard to Everyone:

Given that there's ten minutes left – does anyone have any final questions for the panelists?

16:50:11 From Jonathan Izett (ECCC | he/him) to Everyone:

My experience of successfully navigating 2-body problem (different but related fields).

job
prioritize each other and your relationship, rather than the

don't let the other person compromise on their goals
stay flexible on location and type of position
start searching early

Natasha Ridenour, Laura Gillard, Krysten Rutherford (she/her),

Inge Deschepper: ❤️

16:56:28 From Laura Gillard to Everyone:

I would say to make sure you find a safe place/person to talk about specific challenges that maybe you want to share with someone

who could relate to your issue.

17:00:00 From Fred Dupont to Everyone:

I guess it is important to find a supportive environment

17:10:51 From Michael Dunphy to Everyone:

Start with the table in the meeting notes?

17:15:58 From Jim Christian to Everyone:

<https://publications.gc.ca/site/eng/9.905464/publication.html>

17:18:09 From Jim Christian to Everyone:

https://publications.gc.ca/collections/collection_2025/mpo-dfo/Fs97-18-388-eng.pdf