



Agenda & papers for NEMO Developers' Committee 12 January 2022



Agenda

- Short presentation on NST Annual Report (Claire to present) (20 mins)
- 2022 NST work-plan
 - Proposal for development of future NST Work-plans (20 mins)
 - Proposal for [2022 work-plan](#) and WGL presentations at NST meetings
 - NEMO Officers talk through their bullet points on 2022 work-plan (40 m)
- Development Strategy 2023-2027 (Mike to present)
 - Top-level feedback from the SAC (10 mins)
 - Timetable (10 mins)
 - Meeting to review second draft (all items to be discussed) (20 mins)
 - Objectives
 - Structure
 - Participants
 - Place & Time
 - Decisions needed

Proposal for development of future NST Work-Plans

- Aim: to help bridge the gap between WGs and NST
- First proposal:
 - WGLs to propose items for the Work-plan
 - These items should be promising “demonstrated” science
 - **They must be aligned with the NEMO Development Strategy***
 - Items to be owned initially by WGL
 - Items to become owned by an NST member & a WG member
 - Time-scale for implementation will often be longer than 1 year
- Second proposal (for meetings in next few months)
 - 2-3 slide presentations by WGLs to be made to NST meetings on their chapter of new NDS

* **This point was added following discussion at the meeting**

2022 NST work-plan

- First 3 months will focus on
 - Validation of V4.2 release candidate
 - Other consolidation of V4.2 and documentation on new platforms
 - Merge of RK3 into new trunk & “cleaning” of halos
- Proposal for development of NST Work-Plan for 2022
 - First draft by NEMO Officers to be completed by 14 Jan
 - Inputs from WGLs by 11 Feb
 - Finalised by 25 Feb

Initial feedback from the SAC

- We will get written feedback within about 10 days (@21 Jan)
- These notes are MJB's take on what was said at 10 Jan SAC discussion
- There will be quite a lot of feedback on kernel, HPC and AGRIF
- Feedback too on ASI, sea-ice, land-ice, TOP, eddy closures
- Inevitably some mis-communication but also some good/interesting high-level points we should think about
- Some questions about the purpose & boundaries of NEMO (e.g. estuaries) and the science strategy (chapter 2 evidently not enough ...)

Interesting high-level points

- Useful to consider 10-year, 5-year & 2-year time-scales
- NEMO is the community as much as the code base
- 10-year strategy should describe what the NEMO team needs to learn to remain relevant in 10 years
- Some plans currently sound like a wish-list: to avoid that need to say:
 - What is the starting point (and what achieved in last 5 years)
 - What is the proposed increment (over next 5 years)
 - Who will do the work? key team members (champions)
- What are the contributions from outside the NEMO consortium
 - Need to explain university and other contributions
 - How work is organised (WGs); work appears siloed (is it?)
 - Position on open source development
 - Use to be made of community repositories (CVMix, GOTM, icepack)

NDS – proposed timetable

- SAC met on 10 Jan 2022; expecting written feedback before end Jan 22
- NDC Preparation Team will also review: to be completed by end Jan 22
- Second draft to be completed by end Apr 22 (3 months)
- Meeting to discuss second draft in first half of June 22
- Reviews of second draft by SAC by end Aug 22
- Final version by end Nov 22 (3 months)
 - Do we need so long? **I think we do.**
 - **We might need more introductory sections**
 - **The key points might need to be separated out from the detail**

Meeting to review second draft: Objectives (for discussion)

- Check that:
 - WG proposals are in line with Consortium priorities
 - there is a strategy within each chapter (realistic; ambitious where needed; choices articulated and made)
 - the major issues within each chapter are being addressed
 - cross-cutting issues are identified & addressed
 - there are no major issues missed
- Discuss difficult choices, issues, assumptions
- Make a list of outstanding issues/actions to be addressed
- Enable person-to-person interaction

Meeting to review second draft: Structure

- Plenary sessions
 - Overview of drivers/requirements (chapter 2)
 - Overview of each chapter (lead author) (30 mins max each)
 - Main proposals
 - Issues /difficulties
 - A few top-level / difficult issues
- More specialist sessions
 - Focused on a chapter or a cross-cutting issue
 - Should not just be a WG meeting ...
 - Discuss difficult choices, issues, assumptions
- Coffee-break & after-hour chats

Meeting to review second draft

Participants

- NEMO officers
- Working Group leaders
- NDC consortium representatives
- NEMO Steering Committee members
- Scientific Advisory Committee (most are based in USA)

> 30 people

Meeting to review second draft

Place & Time

- In person – 2 half days & 1 full day – somewhat risky ...

AND/OR

- On-line (better for SAC members, wider participation & environment)
 - Afternoon sessions (2 hours maximum)
 - Can spread them over a week or even 2 weeks
 - Start with one or two plenary sessions
 - Specialist sessions (we can be flexible about timing)
 - Conclude with a plenary session
 - Coffee ; after-hour conversations by Gather.Town ?

Meeting to review second draft: Decisions needed

- On-line or in-person or a mixture of both?
- Agree on a fortnight and plenary session dates (Mon, Tues & following Weds?)
- If aiming for in-person agree on 3 days to block out (Mon-Weds?)