



Report on NEMO V&V WG

Mike Bell

- Strategy & set up of WG
- Progress against strategy

Successes / Issues

Strategy & set up of WG

- Chapter 11 of the strategy simply noted the NEMO development process and the simpler process recently implemented for setting up test cases.
- A WG was set up in summer 2019 to develop a coherent roadmap for NEMO Verification & Validation
- Current WG members are:

Andrew

Mike

Amy

Nicolas Martin

Claire

Pierre Mathiot

Dorotea

Sebastien

Julien

Simon Mueller

- ²• The sole focus has been on drafting the roadmap

Roadmap for improvement of the verification & validation of the NEMO model

- Introduction (scope & objectives)
- Overview of standard methodologies and terminology
- NEMO's current tools & processes: a description of what we have now
- Short-term practical steps to improve what we have now
- Potential tools & processes: methods deployed in other systems
- A road-map: describing short-term actions and actions to scope out options
- Each main chapter considers two topics:
 - Validation of a new science option or functionality
 - System integration and testing

Successes and issues

- **Successes:** we have a first draft roadmap which gives us:
 - a coherent framework
 - a succinct statement of current tools & practices
 - a number of ideas for improvement
 - proposals for actions are being developed for the WP2021
 - Some key members of the NST are keen to focus on this work
- We have written a discussion of the relevance of waterfall & agile methodologies to the NEMO software development process (Amy, Claire, Julien, Mike)
- **Issues**
 - Plans to scope options in the margins were unsuccessful / unrealistic (resolved)
 - Some major decisions lie ahead

Summary

- We have written a roadmap that should be useful
- This is only a first step
- The NST needs to take on this work
- With specific tasks in WP2021 and years to come