



Verification & Validation WG

- Improvements of Verification and Validation now seen by all Developers as a major priority: to facilitate developments so as to ensure more reliable releases

- Roadmap (Nov 2020)

Key objectives for NEMO's V&V include:

- to ensure that the NEMO code base is a reliable and efficient implementation of its scientific formulation as described in the NEMO documentation
- to ensure that the NEMO code meets specific scientific criteria in idealised test cases
- to achieve the above as efficiently as possible.

- Productive discussions within WG helped to define goals and paths

• Results as for now:

- Test cases are part of verification process
- Major SETTE improvements (optimisation, modularity, report on CPU cost added...). Still more to do
- New developers chat tool (Zulip) and users forum (Discourse) now active
- Move from IPSL forge (svn) to MOI GitLab underway

The screenshot shows a web browser window displaying the NEMO Verification and Validation Working Group (WG) wiki page. The page title is "Verification and Validation WG". The URL is "https://forge.ipsl.jussieu.fr/nemo/wiki". The page content includes:

- Verification and Validation WG**
- Last edition: **02/05/21 10:58:50** by **clevy**
- Working group leader (and responsible for wiki pages) : Mike Be...
- Members of the Working group:**
 - [List of members](#)
- Main Documents**
 - [Verification Roadmap v1.0: November 2020](#) (download icon)
 - [Discussion of NEMO development process: October 2020](#) (download icon)
- Additional Documents**
 - [Bob Hallberg's COMMODORE \(Jan 2020\) presentation on M...](#)
- Minutes of Meetings**
 - [Notes_VV_meeting_2020_10_28.pdf](#) (download icon) Minutes 2020/10/28
 - [Notes_VV_meeting_2020_07_08.pdf](#) (download icon) Minutes 2020/07/08
 - [Notes_VV_meeting_2019_12_18.pdf](#) (download icon) Minutes 2019/12/18
 - [Notes_VV_meeting_2019_10_11.pdf](#) (download icon) Minutes 2019/10/11
 - [Notes_VV_meeting_2019_06_26.pdf](#) (download icon) Minutes 2019/06/26



Verification & Validation WG

Ongoing work: Validation of version 4.2 candidate:

- IMMERSE demonstrators
- VALIDATION actions of the Consortium's workplan
 - => End 2021: announcement of 4.2 official release

Next steps, questions to discuss and hopefully to answer in the WG:

- Add verification value to each test case for automatisation
- Elaborate on
 - What should be the Continuous Integration (from SETTE and with the new tools available on GitLab)
 - How to more systematically compare outputs of NEMO to observations (METOF?)
 - What should be « unit testing » for NEMO
 - Have another look at the Roadmap and work out where we have other gaps and which ones we can and should work on.

These elaborations will be done by WG and the conclusions will quite probably be part of the NDS update.