



NEMO Users Meeting

Lecce (IT)
22-23 June 2016

Draft AGENDA

Status: 20 June 2016



Talks last 15 minutes + questions, except invited talks (25 minutes + questions) and talks in blue (10 minutes + questions)

Day 1 - 22 June 2016 (Wed)

- 9.15 – 10.00 Registration, poster set-up (Video conference set-up)
10.00 – 10.05 **D. Iovino** Welcome / practical informations

NEMO Developments (Chair: D. Iovino)

- 10.05 – 10.20 **Andrew Coward**: NEMO 3.6 and developments toward NEMO4
10.20 - 10.30 **C. Bricaud**: On line coarsening in 3_6_STABLE
10.30 – 10.40 **J. Paul**: SIREN Configuration Manager in 3_6_STABLE

NEMO Working Groups (Chair: A. Coward)

- 10.40 – 10.50 **S. Flavoni**: Robustness and Test Cases
10.50 – 11.00 **J. A. Bouttier**: NEMO Data Assimilation
11.00 – 11.10 **J. Chanut**: Agrif
11.10 – 11.20 **S. Ciliberti**: Configuration manager

Coffee break (20')

- 11.40 – 11.50 **E. Clementi**: wave coupling
11.50 – 12.00 **S. Mocavero**: NEMO Computational Performance Optimization: ongoing work within the NEMO HPC working group

High resolution ocean (chair: D. Iovino)

- 12.00 – 12.30 **Laure Zanna (invited speaker)**: Scale aware parametrization of ocean eddies
12.30 - 12.50 **T. Graham**: The impact of resolving the Rossby radius at mid-latitudes in the ocean: results from a high-resolution version of the Met Office GC2 coupled model
12.50 – 13.10 **J. Le Sommer**: Variability of submesoscale dynamics in the North Atlantic from a 1/60°, 300 levels ocean model simulation

Lunch and poster viewing (1h)

- 14.10 – 14.30 **Y. Ourmieres**: High resolution modelling in the North Western Mediterranean Sea: a few insights and challenges on coastal currents simulations.
14.30 – 14.50 **I. Federico**: Coastal ocean forecasting with an unstructured-grid model in the Southern Adriatic Northern Ionian Sea

Sea ice (chair: A. Barthélémy)

- 14.50 – 15.10 **M. Vancoppenolle:** Presentation of the session (5')
- F. Massonnet:** Which sea ice model does the climate community needs?
- 15.10 – 15.25 **C. Rousset:** On the sea ice road to CMIP6 with IPSL-CM
- 15.25 – 15.40 **A. Keen:** Sea ice modelling for CMIP6 within NEMO in the Met Office/UK HadGEM3/UKESM coupled model configurations
- 15.40 – 15.55 **T. Koenig:** EC-Earth: CMIP6 and representation of sea ice
- 15.55 – 16.10 **D. Salas:** Sea ice modelling at CNRM for CMIP6

Coffee break (20')

- 16.30 – 16.50 **A. Barthélémy:** The sea ice model LIM: a new subgrid-scale coupling scheme with NEMO and other recent developments
- 16.50 – 17.10 **Y. Aksenov:** Sea ice-ocean modelling at NOC
- 17.10 – 17.30 **David Schroeder:** Upcoming developments of sea ice model CICE within CPOM
- 17.30- 18.00 **QUESTIONS to the NEMO System Team**

From 19.30: dinner at Osteria Divina Provvidenza

Day 2 - 23 June 2016

Physical processes (chair: T. Graham)

- 9.30 – 10.00 **Mehmet Ilicak (invited speaker):** Recent developments to improve “infamous” North Atlantic cold bias
- 10.00 – 10.20 **M. Luneva:** An assessment of vertical mixing schemes in comparison with observations in the European shelf.
- 10.20 – 10.40 **F. Wobus:** Implementation of a regional model using a hybrid s-on-top-f-z vertical coordinate system in NEMOv3.6
- 10.40 – 11.00 **A. Aguiar:** Assessment of GO6 vs GO5 (climate and analysis mode)

Coffee break (20')

- 11.20 – 11.40 **R. Hordoir:** Changes of the Overturning Circulation of the Baltic Sea Towards the End of the 21st Century

- 11.40 – 12.00 **M. Marnela:** Comparison of NEMO surface freshwater adjustments and climatologies
- 12.00 – 12.20 **G. Verri:** Estuarine dynamics for ocean modelling: the case study of the Ofanto estuary
- 12.20 – 12.40 **C. Chapman:** Idealised modelling of the Southern Ocean

Biogeochemistry (chair: E. Clementi)

- 12.40 – 13.00 **M. Vichi:** BFM-NEMO 1D: a workbench for biogeochemical parameterizations

Lunch and poster viewing (1h)

- 14.00 – 14.20 **O. Aumont:** The evolution of PISCES in the NEMO system: toward more physiology
- 14.20 – 14.40 **L. Bopp:** Simulating the global distribution of C13 and N15 in the marine ecosystems
- 14.40 – 15.00 **A. Yool:** UKESM1 marine biogeochemistry spin-up
- 15.00 – 15.20 **J. Palmieri:** UKESM1 and MEDUSA

Coffee break (20')

Data assimilation and Operational applications (chair: S. Mocavero)

- 15.40 – 16.00 **M. Chevalier:** Intercomparison of Arctic sea ice in global reanalyses
- 16.00 – 16.20 **A. Cipollone:** Towards a fully operational eddying Global Forecasting System
- 16.20 – 16.40 **S. Ciliberti:** A NEMO-based regional circulation modelling configuration for the Black Sea
- 16.40 – 17.00 **R. Lecci:** Sea Condition: present and future sea conditions for safer navigation
- 17.00 – 17.20 **E. Jansen:** Ocean-SAR: An operational search-and-rescue service for the Mediterranean Sea

POSTERS:

1. **J. Brauch:** Coupling of COSMO/CLM and NEMO in two regions
2. **D. Iovino:** A 1/16° eddying simulation of the global sea ice-ocean system
3. **L. Tedesco:** Sea ice biogeochemistry with BFM and NEMO: HOWTO and applications
4. **E. Clementi:** The Mediterranean Forecasting System in the Copernicus Marine Service: latest improvements and skill assessment
5. **A. Gierisch:** Simulating ice thickness distributions and nesting with SIREN