DRAKKAR WORKSHOP 2017 – FINAL AGENDA (updated: 11 January 2017)

Time for presentations. Unless specified, Talks are 20mn: 15mn for presentation and 5mn for discussion/questions. Since the workshop aims to preserve discussion time, you must be strict on the 15mn presentation time.

Monday 16 January

8h30-8h50: Welcome (with coffee and pastries)
8h50-9h00: Introduction

SESSION 1: Benefits of high resolution to the science made with ocean/sea-ice models
9h00-10h30: 4x20mn talks – Convener: Thierry Penduff
North Atlantic. Rapporteurs: Torge Martin & Guillaume Mazé
1. Yevgeny Aksenov (NOC - Southampton): Arctic Pacific water dynamics from model inter-comparison and observations.
2. Paul Myers (U Alberta - Edmonton): Pan-Arctic Exchange, the Labrador Sea and the AMOC

10h30-11h00: coffee break

11h00-12h30: 4x20mn talks – Convener: Klaus Getzlaff
Southern and Global Ocean. Rapporteurs: Torge Martin & Guillaume Mazé

12h30-12h45: group photos
12h45-14h00: Lunch

14h00-15h30: 4x20mn talks – Convener: Claude Talandier
Submesoscale permitting resolution. Rapporteurs: Joël Hirshi & Thierry Penduff

15h30-16h00: coffee break

SESSION 2: Atmospheric driving of eddying OGCMs
16h00-17h30: Session 1 - 4x20mn talks – Convener: Laurent Brodeau
Rapporteurs: Adam Blaker & Florian Lemarié
15. Rafael Abel (GEOMAR – Kiel): Feedback of mesoscale ocean currents on atmospheric winds in high-resolution coupled models and implications for the forcing of ocean-only models.
16. Lionel Renault (UCLA): Surface current feedback: which strategy is the best to force a high-resolution ocean model?

17h30-18h30: Discussion No1 - Lead: Anne Marie Tréguier.
Focus: Lessons learned from high resolution simulations. The discussion will be introduced by a 10mn presentation from:
Anne Marie Tréguier (LOPS- Brest): Lessons learned from global mesoscale-resolving modelling: a personal view.
SESSION 3: The eddy-permitting regime

9h00-10h30: Session 3 - 4 x20mn talks – Convener: Qiang Wang

Chaotic variability and stochastic parameterisation. Rapporteurs: Alex Megann & Lavinia Patara

10h30-11h00: coffee break

11h00-12h30: Session 3 - 4x20mn talks – Convener: James Orr.

Eddy-permitting dynamics. Rapporteurs: Lavinia Patara & Alex Megann

12h30-14h00: Lunch

SESSION 4 - OGCM evolution for basin-scale to global eddying simulations: processes and setups

Processes. Rapporteurs: Nicolas Jourdain & Yevgeny Aksenov
15h00-15h30: Session 4 - 1x20mn Talk – Convener: Rym Msadek
25. Camille Lique (LOPS – Brest): On the importance of vertical mixing for simulating the Arctic Ocean and sea ice states.
26. Pierre Rampal (NERSC – Bergen): On simulating sea ice with the new fully Lagrangian model neXtSIM.

15h30-16h00: coffee break

16h00-18h00: Session 4: 5x20mn talks– Convener: Paul Myers

28. Torge Martin (GEOMAR – Kiel): What to consider for a high-resolution Enhanced-Greenland-Runoff simulation with NEMO.
29. Marion Donat-Magnin (IGE - Grenoble): Impact of interactive ice-shelves on the ocean response to the SAM trend, and possible feedbacks with the ice-dynamics.

Pause 10mn

31. Pedro Colombo (IGE - Grenoble): Denmark Strait overflow in NEMO: does the type of vertical coordinate matters?

18h00: End of day
**Wednesday 18 January**

**SESSION 4 - OGCM evolution for basin-scale to global eddying simulations: processes and setups**

*Modelling and simulation practices. Rapporteurs: Julie Deshayes & Pierre Mathiot*

**9h00-10h30: Session 4 : 4x20mn – Convener: Camille Lique.**

32. Rémi Tailleux (U. of Reading): Conceptual issues and pitfalls associated with the use of neutral rotated diffusion tensors.
34. George Nurser (NOC – Southampton): Upper-ocean mixing by Langmuir circulations: implementing the OSMOSIS Ocean Boundary Layer Model into NEMO.

**10h30-11h00: coffee break**

**11h00-12h00: Session 4: 3x20mn – Convener: Chris Roberts**

37. Laurent Brodeau (BSC-Earth Science – Barcelona): NEMO optimization at BSC.

**12h00-15h00: Discussion No3 - Lead: Julien Le Sommer**

- NEMO

**12h30-14h00: Lunch**

- Present and future simulation practices with Drakkar configurations
- Recommendation for Drakkar eddy resolving configurations in 2016 and on studies for which coordination is desirable,
- Recommendation of forcing,
- Next Drakkar workshop and meeting conclusions.

**SESSION 5 – Ocean-wave model coupling**

**15h00-18h00: Session 5 - 5x20mn + 1x30mn talks – Convener: George Nurser**


**15h30-16h00: coffee break**

40. Xavier Couvelard (LOPS – Brest): Toward improving oceanic forecasts through ocean and waves coupling.
41. Øyvind Breivik (NMI - Bergen): WAVE2NEMO: forcing a regional high resolution NEMO model with WAM fluxes and fields.
42. Stéphane Law-Chune: (Mercator Océan – Toulouse): NEMO forced with MFWAM wave model at Mercator Océan.

**Pause 10 mn**

44. Yevgeny Aksenov (NOC - Southampton): Modelling the waves, ocean and ice - A golden key to the future Arctic projections?

**18h00: End of meeting**

**Thursday 19 January**

**9h00-12h30: NEMO-WAVE Working Group Meeting. Convener: George Nurser.**

The meeting will be held in the building of the MEOM Group, in room 103 (first floor).

See Map.
Role of session rapporteurs:
There are 2 session rapporteurs for each session. Their task is to write together a short report with the highlights of the session as well as a synthesis of the relevant discussion items addressed in the corresponding session discussion. The report will be sent to Anne Marie Treguier who will edit the final report of the workshop. See last year report at: https://www.drakkar-ocean.eu/meetings/reports/drakkar-2016-meeting-report

Role of Discussion Leaders:
They are in charge to organize and lead the discussion that follows the session and review the draft report of the session rapporteurs.

Role of Discussion Secretaries:
They are in charge to report on organize and lead the discussion that follows the session and review the draft report of the session rapporteurs.

Role of Sessions Conveners:
They are in charge to convene the session, and make sure that presentations (including turnover time and a few questions) do not exceed the time allowed (≤20mn for most).