Monday 15 Oct.

9:00 Molemaker & Roullet, Welcome Talk
9:15 Kraig Winters, Finding waves in a sea of eddies: Separating balanced from unbalanced motions in nonhydrostatic simulations
10:00 Cruz Garcia, Modeling transport and mixing by internal gravity waves in the Southern Ocean

10:30 Coffee

11:00 Leif Thomas, Eddy strain induced modifications to near-inertial waves and their implications for the energetics of the waves and eddies
11:45 Jared Penney, Modelling of idealized Kelvin-Helmholtz configurations using CROCO-NH

12:30 Lunch

14:00 Caroline Muller, Dissipation of internal tides in the abyssal ocean: linear and nonlinear processes
14:45 Bertrand Delorme, Implications of Relaxing the Traditional Approximation for Equatorial Waves

15:15 Break

15:45 Patrick Marchesiello, Advances in non-Boussinesq CROCO
16:15 Guillaume Roullet, CROCO-NH a non-hydrostatic version of CROCO

18:30 Gala dinner at the Brest Castle (downtown, tram stop « château »), starting with a visit of the Marine Museum. Military area, access granted but be on time!
Tuesday 16 Oct.

9:15 William Dewar, Non-Hydrostatic Multiphase Modeling
10:00 Cayla Dean, Non-hydrostatic Dynamics of Freshwater Lenses in the Near-Surface Layer of the Ocean

10:30 Coffee

11:00 Jeroen Molemaker, From Regional Simulations to LES
11:30 Lucie Bourdois, Modeling internal fine-scale processes in the strait of Gibraltar: a fully 3D non-hydrostatic and non-Boussinesq approach

12:30 Lunch

14:00 Jonathan Gula, Generation of waves and vortices in the lee of the Charleston Bump
14:45 Ali Mashayek, Diapycnal mixing near topography

15:15 Break

15:45 Panel discussion: “Future directions in small scale ocean modeling”
17:15 end panel discussion

Wednesday 17 Oct.

9:15 Oliver Fringer, Weakly nonhydrostatic ocean modeling with hybrid vertical coordinates
10:00 Alexander Soloviev, A Multi-phase Model of the Air-sea Interface under Tropical Cyclone Conditions

10:30 Coffee

11:00 Jean Luc Redelsperger, LES ocean modeling at LOPS
11:30 Aakash Sane, Predictability of ROMS-Ocean State Ocean Model (ROMS-OSOM)

12:30 Lunch

14:00 Fujiwara Yasushi, Explicit simulation of deep-water waves and Langmuir circulations
14:45 Nobuhiro Suzuki, Two-way coupling between a deep-water surface gravity wave and a circulation consisting of a roll circulation and an along-roll jet

15:15 Forum on « practices in ocean modelling ». Students are encouraged to ask questions on any aspect of ocean modelling. Specialists in the room will try to answer.

16:30 – 18:00 Wine tasting