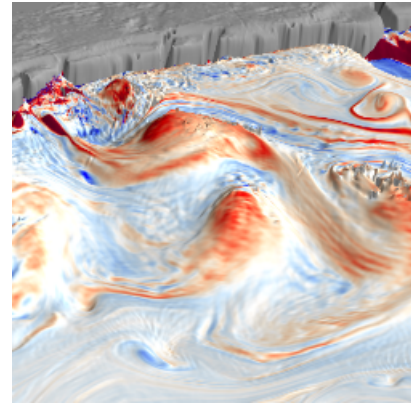


NHOM-Brest: Workshop on Non-Hydrostatic Ocean Modeling

15-17 October 2018, Brest



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