A Tribute to Bach-Lien HUA 9h-13h

09:00 Registration - Coffee 09:30 Patrice Klein: Welcome 09:45 A Tribute to Bach-Lien Hua **Patrick Vincent** Michel Crépon

10:30 Alain Colin de Verdière: Lien's scientific approach: how it can help to make future breakthroughs

11:00 Coffee Break

11:30 Eric Firing: Equatorial subthermocline circulation driven by intraseasonal variability

12:00 Annick Pouquet: An energy pathway to dissipation in rotating stratified turbulence in the context of astrophysical and geophysical flows

12:30 Emile Okal: Extracurricular Geophysics: Unexpected coupling between Earth systems

13:00 Lunch

Large and mesoscale interactions at midlatitude 14h30-17h30



14:30 Peter B. Rhines: Connecting enstrophy dynamics with western boundary currents

15:00 William K. Dewar: Potential Vorticity Budgets in the General Circulation

15:20 Thierry Huck: Multidecadal variability of the overturning

circulation in presence of eddy turbulence

15:40 Louis-Philippe Nadeau: The role of closed gyres in setting the zonal transport of the Antarctic Circumpolar Current

16:00 Coffee Break

16:30 Paola Cessi: Topographic Enhancement of Eddy Efficiency in Baroclinic Equilibration

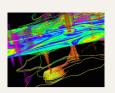
16:50 William R. Young: Zonostrophic Instability: formation, maintenance and drift of beta-plane jets

17:10 Carsten Eden: A framework for energetically consistent ocean models



PROGRAM

Meso and sub-mesoscale turbulence 9h00-13h



09:00 Xavier Capet: Impact of submeso-scale fronts in the ocean: recent progress and enduring challenges 09:30 Rosemary Morrow: Resolving small-scale ocean dynamics from altimetry & the future SWOT mission 09:50 Brian Arbic: Towards an internal wave spectrum in alobal ocean models

10:10 Bertrand Chapron: Detailing the upper ocean-atmosphere couplings from Space

10:30 Hideharu Sasaki: Impact of oceanic scale-interactions on the seasonal modulation of ocean dynamics by the atmosphere

10:50 Coffee Break

11:20 Marie Farge: Production of dissipative vortices by solid bodies in incompressible fluid flows: comparison between Prandtl, Navier-Stokes and Euler solutions

11:40 Gualtiero Badin: The role of short-wave instabilities on geostrophic turbulence is studied in a simplified model consisting of three layers in the quasiquestrophic approximation 12:00 Hidenori Aiki: Reduction of sampling errors using a phase-independent expression for energy flux associated with inertia-gravity wave

12:20 Adrian Martin: The Challenges of Life at the Mesoscale and Submesoscale

12:40 Marina Levy: Oceanic mesoscale turbulence drives large biogeochemical interannual variability at mid and high latitudes

13:00 Lunch

Stirring and mixing 14h30-19h30



14:30 Guillaume Lapeyre: Stirring and mixing of active and passive tracers in the atmosphere and ocean

15:00 K. Shafer Smith: Submesoscale stirring by balanced and unbalanced flows

15:30 Peter H. Haynes: What limits horizontal scales of oceanic tracer filaments?

15:50 Joe Lacasce: Relative dispersion in the atmosphere 16:10 Coffee Break

16:40 Daniel Schertzer: Quasi-geotrosphic approximation and a fractional vorticity equation

17:00 Joël Sommeria: Mixing in a stably stratified fluid: statistical mechanics predictions compared with laboratory experiments

17:20 Remi Tailleux: Molecular control of turbulent diapycnal mixing in the ocean thermocline

17:40 Pascale Bouruet-Aubertot: Parameterization of energy dissipation and turbulent mixing in the Indonesian Throughflow from INDOMIX experiment

POSTER SESSION 18h-19h30

Equatorial interacting scales 9h00-12h30 Ocean layering and seismic observations



09:00 Kelvin J. Richards: Layering and shear generated turbulence in the equatorial Pacific

09:30 Vladimir Zeitlin: Understanding inertial instability of equatorial jets 09:50 Frédéric Marin: Intermediate zonal jets in the tropical oceans as observed

by Argo floats: A new challenge for theoreticians 10:10 Bruce Cornuelle: State estimation and prediction in

the bifurcation region East of the Philippines

10:30 Breck Owens: Repeat Observations by Gliders in the Equatorial Region west of the Galápagos Archipelago -Preliminary Observations and Modeling Studies

10:50 Coffee Break

11:20 Claire Ménesquen: Layering and turbulence surrounding an anticyclonic oceanic vortex: In situ observations and quasi-geostrophic numerical simulations

11:50 Patrice Meunier: Structure and instabilities of lens vortices in a stratified fluid

12:10 Paul Billant: Experimental and numerical studies of stratified turbulence forced with columnar dipoles.

POSTER SESSION - Buffet 12h30-14h

Scientific Breakthroughs in oceanatmosphere interactions 14h-17h30



14:00 Claude Frankignoul: The influence of the variability of the ocean circulation on the large-scale atmospheric circu-lation : observational evidence and possible mechanisms

14:30 Fabrice Ardhuin: How ocean waves rock the solid Earth: two mech-

anisms explain seismic noise with periods 1 to 300 seconds 14:50 Phil Richardson: Proposed Observing System Using High-Speed Robotic Albatross UAVs Powered by Dynamic

15:10 Gwendal Rivière: Eddy kinetic-energy redistribution in quasi-geostrophic flows: implication for the midlatitude winter storms

15:30 Coffee Break

16:00 Florian Sévellec: On the predictability of the North Atlantic ocean state

16:20 Bunmei Taguchi: Response of atmosphere-ocean system to latitudinal shifts of the North Pacific western boundary current extensions in a coupled GCM

16:40 Anne-Marie Tréquier: Challenges in high resolution climate modelling

17:00 Michael Ghil: Climate change and climate variability: What do we know?





