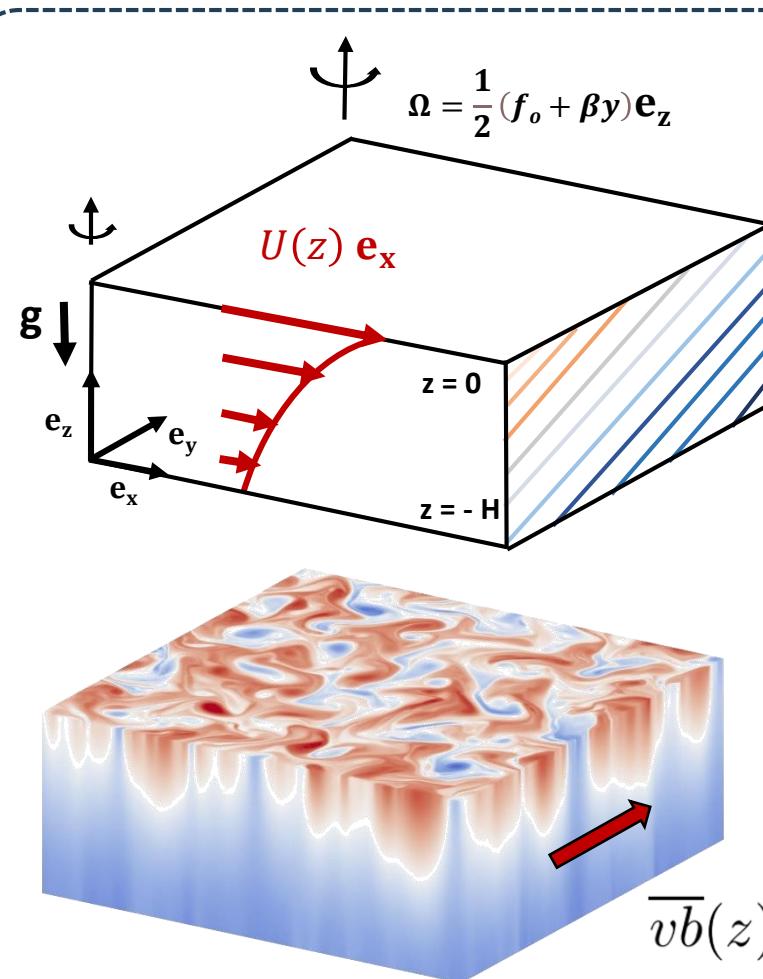


Vertical structure of transport by ocean mesoscale turbulence

Julie Meunier, Basile Gallet, Benjamin Miquel

Service de Physique de l'Etat Condensé, CEA Saclay

Quasi-2D dynamics of stratified rotating flow on β -plane

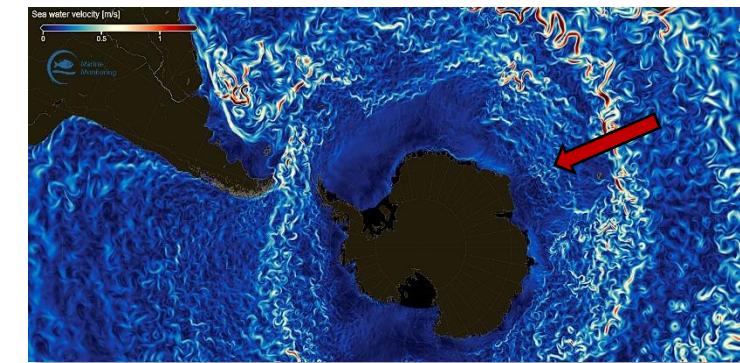


Large scale shear and stratification

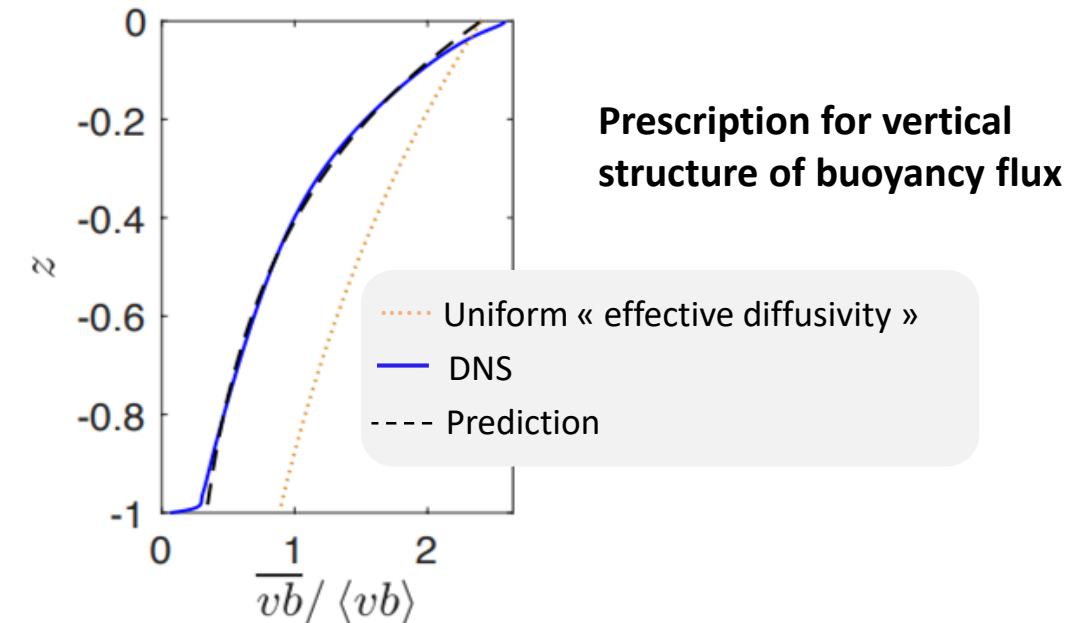
Turbulent fluxes of tracers and large scale gradients related by diffusion tensor

Snapshot of departure buoyancy field (Meunier, Miquel, Gallet, JFM 2023)

Parametrizing ocean mesoscale turbulence



Credit: European Union,
Copernicus Marine
Environment Monitoring
Service. Sea water
surface velocity (m/s)



Prescription for vertical structure of buoyancy flux