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4th COMMODORE Workshop on Advancing Ocean Modeling: Bridging Theory, Computation, Scales, and Applications | (smr 4237)

Wednesday 23 September 2026

- Kastler Lecture Hall (AGH) (09:00-19:00)

time	title	presenter
09:00	A variational approach to define the ALE movement in ocean models	ALEXANDRIS-GALANOPOULOS ANDREAS
09:30	Extending z-tilde in NEMO: Towards a Stable and Efficient Vertical ALE Coordinate	THOMAS GANTZ
10:00	Accurate calculation of pressure forces on cells defined by steeply sloping coordinates	MIKE BELL
10:30	Coffee Break	
11:00	Entropy Stable Barotropic-Baroclinic Split-ting for Multilayer Shallow Water Models	SOPHIE HÖRNSCHEMEYER
11:30	Direct numerical simulations of surface wave- induced forces	CARSTEN EDEN
12:00	Advancing Storm Surge Model. in Southern Java Coast through Wave-Current Coupling	KHAFID PRATAMA
12:30	Lunch Break	
14:30	Chaotic Stirring in Tidally Dominated Shallow Seas: A Study of the Helgoland Trap	VERA SIDORENKO
15:00	Towards physically-based treatment of river inputs in MOM6	GUSTAVO MARQUES
15:30	Assessment of a Stochastic Large-Scale Hydro- static Primitive Equations Model	FRANCESCO TUCCIARONE
16:00	Coffee Break	
16:30	The parameterization paradox: when do oceanic small scales matter for climate?	NOEL GUTIERREZ BRIZUELA
17:00	Discussion session #4	
17:30	Discussion session #5	
18:00	Open session	