Workshop Schedule

Sunday, 21.09., 19:00	**Icebreaker meeting at „Alter Fritz“, Warnowufer 65, 18057 Rostock**	
Monday, 22.09.		
08:45-11:30	08:45 h Meeting Point „Platz der Freundschaft“ next to Rostock Station (Hbf) (google maps) 09:00 h Departure by bus 10:50 h arrival at Lauterbach harbour 11:00 h boat transfer to Vilm 11:30 h arrival on Vilm	
11:30	check-in	
12:30	lunch	
14:00	**WELCOME**	
14:30–15:30	**Nicole Jones**	**Turbulent mixing in an energetic coastal ocean**
15:30-16:00	*coffee break*	
16:00-16:30	Simon Reifenberg	Mixing Under Melting Sea Ice: Observed Links of Tidally-Generated Internal Waves and Turbulence in the Seasonal Halocline
16:30-17:00	Jennifer MacKinnon	Phenomenology of the Finescale
17:00-17:30	Bieito Fernández Castro	Contrasting ocean mixing regimes observed with turbulence profiling floats
17:30-18:00	Leo Middleton	Abyssal Recipes in a Warming Ocean
18:00	*dinner*	
19:30	*Poster Elevator Presentations*	
19:45	*Poster Session I (see last page)*	
Tuesday, 23.09.		
07:30-09:00	*breakfast*	
09:00-10:00	**Eric D‘Asaro**	**NonLocal Transport in the Ocean Boundary Layer**
10:00-10:30	Isabelle Giddy	Waves explain observed similarity scaling of turbulence dissipation in the Southern Ocean
10:30-11:00	*coffee break*	
11:00-11:30	Alejandro Cifuentes-Lorenzen	Defining the depth of the TKE injection in the wave boundary layer
11:30-12:00	Jeff Carpenter	The continuous spectrum of surface gravity waves on a sheared current
12:00-12:30	Qing Li	Large Eddy Simulations of Stabilizing Effects Induced by Opposing Eulerian Current and Stokes Drift in an Idealized Ocean Surface Boundary Layer
12:30-13:30	*lunch*	

14:00-14:30	Tobias Kukulka	Interactions between cross-channel flows and Langmuir turbulence in an estuary: Insights from large eddy simulations
14:30-15:00	Ramsey Harcourt	Transport and Anisotropy of Turbulence near a free surface
15:00-15:30	Lloyd Reese	Mixing and Water Mass Transformation in Tidal Estuaries
15:30-16:00	*coffee break*	
16:00-17:00	**Pascale Lelong**	Born of Wind, Broken at Depth: The Cradle-to-Grave Journey of Near-Inertial Waves
17:00-17:30	Takashi Ijichi	Phase-locked internal-wave triads observed in the Izu-Ogasawara Ridge: Implications for interplay between tides and winds
17:30-18:00	Hossein Kafiabad	Interaction of near-inertial waves with mesoscale and submesoscale vortical structures
18:00	*dinner*	
19:30	*Poster Elevator Presentations*	
19:45	*Poster Session II (see last page)*	
Wednesday, 24.09.		
07:30-09:00	*breakfast*	
09:00-10:00	**Ruth Musgrave**	**The role of superinertial coastally trapped waves in tidal energy pathways**
10:00-10:30	Harper Simmons	Subinertial tidal forcing of turbulence and mixing at the Jan Mayen Ridge
10:30-11:00	*coffee break*	
11:00-11:30	Leif Thomas	Interactions of internal waves with submesoscale currents in the bottom boundary layer
11:30-12:00	Evridiki Chrysagi	Genesis of submesoscale motions over sloping topography during storms: Insights from the Baltic Sea
12:00-12:30	Miriam Sterl	The influence of oceanic bottom slopes on Lagrangian and Eulerian eddy diffusivities in a two-layer model
12:30-13:30	*lunch*	
14:00-14:30	*free time*	
14:30-15:30	**Maarten Buijsman**	**The decay of the low-mode internal tide due to near-resonant wave-wave interactions in a global ocean simulation**
15:30-16:00	Lois Baker	Near-resonant generation of internal tide superharmonics: comparing theoretical predictions with a global ocean model
16:00	*coffee break*	
16:30-18:00	*free time*	
18:00	*dinner*	
19:30-20:00	Kurt Polzin	Mesoscale Eddy - InternalWave Coupling. III. The End of the Enstrophy Cascade and Maintenance of Gyre Scale Potential Vorticity Gradients
Thursday, 25.09.		
07:30-09:00	*breakfast*	
09:00-10:00	**Triantaphyllos Akylas**	**Broadband small-scale instabilities of internal gravity-inertial waves**

10:00-10:30	Georg Sebastian Völker	Triad interactions of internal gravity waves in the atmosphere under slowly varying flow conditions
10:30	*coffee break*	
11:00-11:30	Thomas Christian Vandamme	DNS of two-dimensional gravity-wave break-up near critical levels
11:30-12:00	Dirk Olbers	Lagrange's view of wave-wave interactions
12:00-12:30	Noel Brizuela	Poleward shifts in inertial pumping under global warming
12:30-13:30	*lunch*	
13:30-16:00	13:30 h boat transfer from Vilm to Lauterbach 14:00 h departure by bus to Rostock 15:45 h arrival at Meeting Point „Platz der Freundschaft“ next to Rostock Station (Hbf) (google maps) 16:00 h Goodbye	

Monday, 22.09. Poster Session I

Roy Barkan	An unprecedented view of ocean currents from geostationary satellites
Cai Maitland-Davies	Tracer transport with Lagrangian mean velocities
Berkay Basdurak	Mixing and internal waves in a non-tidal, narrow and stratified strait
Kerstin Bergentz	Waves and stratified turbulence in the Bay of Bengal
Grete Boskamp	Buoyant gravity currents triggered by a collapsing mid-latitude submesoscale front
Emelie Breunig	Surface Mixed Layer Response to Forcing in the Labrador Sea
Hans Burchard	A short review on estuarine mixing principles
Giovanni Dematteis	Interacting internal waves explain global patterns of interior ocean mixing
Prajwal Jadhav	Characterizing Deep Cycle Turbulence in the Equatorial Undercurrent with Statistical Turbulence Models
Kiera Lowman	Climatic Impacts of the Vertical Distribution of Diapycnal Mixing in the Ocean

Tuesday, 23.09. Poster Session II

Giulio Meille	Turbulence and Mixing in Subducting Alaskan Coastal Water on the Chukchi–Beaufort Slope
James O'Donnell	The Role of Vertical Mixing in the Hypoxic Zone of a Large Estuary
Amjad H. Peringampurath	Internal Wave Generation by Stimulated Emission Across Regimes
Ole Pinner	Importance and Variability of internal-wave-induced dissipation rates in the Weddell Sea Bottom Water gravity current
Lina Rotermund	Near-inertial waves in a high-latitude channel
Pablo Sebastia Saez	Wave-wave interactions within a typical internal gravity wave spectrum in the ocean
Michal Shaham	Spectral Flux Decomposition in a Wind-Driven Channel Flow with Near-Inertial Waves
Amit Tandon	Near-Inertial Wave (NIW) propagation in curved oceanic fronts - when does curvature matter?
Lars Umlauf	Cross-front wind forcing of a dense submesoscale filament
Han Wang	Synergizing Surface Fields in a Deep-learning Extraction of Internal Tides
Yang Wang	Agulhas rings enhance dissipation of internal tides