

Warnemuende Turbulence Days 2015  
Workshop Schedule,  
August 30 – September 3, 2015



<b>Sunday, August 30</b>		
19:00 h - ...	Icebreaker meeting at „Alter Fritz“ Warnowufer 65, 18057 Rostock	
<b>Monday, August 31</b>		
09:01 h	Departure Rostock Hbf <b>leaving from track 3</b> , 10:54 h arrival in Lauterbach Mole	
11:15 + 11:40 h	boat transfer to Vilm	
11:00 - 12:30 h	<i>Check-in</i>	
12:30 - 13:30 h	<i>Lunch</i>	
<b>“Energy and matter fluxes mediated by marine and atmospheric turbulence”</b>		
13:30 – 14:00 h	Opening and workshop information	
<b>SESSION I</b>		
14:00 – 15:00 h	<b>Xavier Capet:</b>	<b>Modeling energy and matter fluxes in the upper ocean</b>
15:00 – 15:30 h	von Storch, J.-S.:	Vertical heat and salinity fluxes due to resolved and parameterized meso-scale eddies
15:30 - 16:00 h	Tippenhauer, S.:	Overflow induced turbulence in a deep ocean channel
16:00 - 17:00 h	<i>Coffee break</i>	
17:00 - 17:30 h	Pelling, H.:	Pycnocline mixing in shelf seas (PycnMix) - Identifying coherence in a sea of chaos
17:30 - 18:00 h	Chouksey, M.:	Role of Gravity Waves in the Dissipation of Mesoscale Eddies
18:30 - 19:30 h	<i>Dinner</i>	
19:30 - ...	Posters, drinks and snacks	
<b>Tuesday, September 1</b>		
07:30 - 09:00 h	<i>Breakfast</i>	
<b>SESSION II</b>		
09:30 - 10:30 h	<b>Stephen G. Monismith:</b>	<b>Internal waves and stratified turbulence in the near-shore coastal ocean</b>
10:30 - 11:00 h	Boehrer, B.:	Decomposing current profiles of Lake Constance into modes of the internal wave equation
11:00 - 11:30 h	<i>Coffee break</i>	
11:30 - 12:00 h	Klocker, A.:	Wave-turbulence interaction in the Antarctic Circumpolar Current
12:00 - 12:30 h	Cyr, F.:	Internal tides breaking and mixing efficiency over a deep-ocean sloping topography
12:30 - 13:30 h	<i>Lunch break</i>	

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13:30 - 14:00 h	Becker, E.:	Becker, E.:Energy deposition of vertically propagating waves: The role of thermal tides for the global circulation in the mesopause region
14:00 - 14:30 h	Jurgenowski, P.:	Wind-driven Radiation of Internal Gravity Waves from the Surface Mixed Layer
<b>SESSION III</b>		
14:30 - 15:30 h	<b>Laure Zanna:</b>	<b>A recipe for ocean mesoscale parametrizations: non-viscous stress, stochasticity and energy backscatter</b>
15:30 -16:00 h	Schaefer-Rolffs, U.:	A scale invariance criterion for subgrid-scale parametrizations of general circulation models (and others)
16:00 - 16:30 h	<i>Coffee break</i>	
16:30 - 17:00 h	Olbers, D.:	Wave-mean flow interaction and wave-induced viscosities
17:00 - 17:30 h	Gassmann, A.:	The role of subgrid-scale heat flux parameterization during modeled wave breaking in the mesosphere
17:30 - 18:00 h	Liu, Z.:	On shear instability in the ocean: critical $Ri$ , marginality, turbulence parameterization
18:00 - 18:30 h	Pollmann, F.:	Validating the global internal wave model IDEMIX using finescale parameterizations
18:30 - 19:30 h	<i>Dinner</i>	
19:30 - ...	Posters, drinks and snacks...	
<b>Wednesday, September 2</b>		
07:30 - 09:00 h	<i>Breakfast</i>	
<b>SESSION IV</b>		
09:30 – 10:30 h	<b>Siegfried Raasch:</b>	<b>Turbulent transport in the atmospheric and oceanic mixed layer under convective conditions</b>
10:30 - 11:00 h	Buckley, M.:	Laboratory and field investigation of the wind stress above waves
11:00 - 11:30 h	<i>coffee break</i>	
11:30 - 12:00 h	Jochum, M.:	The connection between Southern Ocean winds, Atlantic Meridional Overturning Circulation and Indo-Pacific upwelling.
12:00 - 12:30 h	Smyth, W.D.:	The Deep Cycle of Equatorial Turbulence
12:30 -13:30 h	<i>Lunch break</i>	
13:30 - 14:00 h	Holtermann, P.:	Oxygen transport into the central Baltic Sea by lateral intrusions
14:00 - 14:30 h	Thomsen, S.:	On the subduction of newly upwelled water in submesoscale cold filaments off Peru.

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<b>SESSION V</b>		
14:30 - 15:30 h	<b>Parker MacCready:</b>	<b>Closed Energy Budgets for Regional Numerical Simulations</b>
15:30 - 16:00 h	Purkiani, K.:	Variability of estuarine circulation in a tidally energetic inlet with curvature
16:00 - 16:30 h	<i>Coffee break</i>	
16:30 - 18:30 h	<i>Free discussion time - walking around Vilm</i>	
18:30 - 19:30 h	<i>Dinner</i>	
19:30 - ...	Posters, drinks and snacks	
<b>Thursday, September 3</b>		
07:30 - 09:00 h	<i>Breakfast</i>	
09:00 - 09:30 h	Schulz, K.:	Residual sediment transport by tidal straining near sloping topography
09:30 - 10:00 h	Long, M.:	Oxygen Metabolism and pH in Coastal Ecosystems: Eddy Covariance Hydrogen ion and Oxygen Exchange System (ECHOES)
10:00 - 10:30 h	<i>Coffee break</i>	
10:30 - 11:00 h	Nimmo Smith, W.A.M.:	In-situ measurements of microscale turbulence and particles in the sea
11:00 - 11:30 h	Becherer, J.:	Estuarine circulation versus tidal pumping: Sediment transport in the Wadden Sea
11:30 - 12:00	<i>Lunch</i>	
12:05 + 12:30 h	boat departure from Vilm	
13:04 h	train departure from Lauterbach Mole 14:55 h train arrival at Rostock Hbf	

**Organization:**

*Prof. Dr. Hans Burchard*  
*(Leibniz-Institute for Baltic Sea Research Warnemuende)*

*Prof. Dr. Carsten Eden*  
*(Institut für Meereskunde, Universität Hamburg)*

*PD Dr. Lars Umlauf*  
*(Leibniz-Institute for Baltic Sea Research Warnemuende)*

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