



# Atmosphere and Ocean Dynamics 2024

## Donnerstag, 11. April 2024

### **Conference: Block 1 (09:10 - 10:50)**

**-Vorsitzende der Sitzung: Peter Brandt**

time	[id] title	presenter
09:10	[2] Cold anticyclonic eddies and warm cyclonic eddies in the ocean	ZHAI, Xiaoming
09:30	[35] Observations of near-inertial wave interactions within coherent mesoscale eddies	SCHÜTTE, Florian
09:50	[31] Vertical fluxes in subpolar eddies from a high-resolution, multiplatform experiment in the Labrador Sea	DILMAHAMOD, Fehmi
10:10	[1] Vertical coupling and dynamical source for the intraseasonal variability in the deep Kuroshio Extension	YANG, Yang
10:30	[8] The ocean flows downhill near the seafloor and recirculates uphill above	SCHUBERT, René

### **Conference: Block 2 (11:20 - 13:00)**

**-Vorsitzende der Sitzung: Ric Williams**

time	[id] title	presenter
11:20	[41] Parameterizing ocean eddies: Kinetic energy injection via stochastic and deterministic approaches	JURICKE, Stephan
11:40	[38] Relaxation, teleconnection and storylines	JUNG, Thomas
12:00	[24] Vertical momentum advection enhances the tropical Rossby wave source	WICKER, Wolfgang
12:20	[3] Disentangling North Atlantic ocean-atmosphere coupling using circulation analogues	PATTERSON, Matthew
12:40	[6] The interannual wintertime climate modes over mid-high latitude Eurasia and their climate impacts	SUN, Xuguang

### **Conference: Block 3 (14:00 - 15:00)**

**-Vorsitzende der Sitzung: Thomas Jung**

time	[id] title	presenter
14:00	[5] Numerical Study of Seasonal and Interannual Variability of Freshwater Fluxes over the Eastern Canadian Shelf	SHENG, Jinyu
14:20	[12] Sea level variations in shelf waters off the coast of British Columbia: from sub-synoptic to interannual time scales	Dr. LU, Youyu
14:40	[7] On the role of canyons on pathways of Atlantic Water towards the glaciers of Northwest Greenland	PIETRZAK, Julie

### **Conference: Block 4 (16:00 - 17:00)**

**-Vorsitzende der Sitzung: Martin Claus**

time	[id] title	presenter
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16:00	[27] Role of equatorial basin modes for equatorial Atlantic productivity	BRANDT, Peter
16:20	[26] Generation of the Equatorial Intermediate Current in the eastern Pacific Ocean	TERADA, Yusuke
16:40	[39] A Great Batch of Beers: The Social Value of Beer with Historical reference to the Ouseburn district of Newcastle-upon-Tyne	GREATBATCH, Mike

# Freitag, 12. April 2024

## Conference: Block 5 (09:20 - 10:40)

-Vorsitzende der Sitzung: Julie Pietrzak

time	[id] title	presenter
09:20	[22] Strong Eastern Pacific El Niños dominate amplitude variations and asymmetry in observations and climate models	LÜBBECKE, Joke
09:40	[30] Seasonality of Feedback Mechanisms Involved in Pacific Coastal Niño Events	RUDLOFF, Daniel
10:00	[11] Anticyclonic and Cyclonic Circulations of Wave Energy in the Western and Eastern Tropical-Subtropical Pacific Ocean: a Reevaluation of the Zonal Interactions	AIKI, Hidenori
10:20	[13] ENSO from the perspective of linear, shallow water models	GREATBATCH, Richard John

## Conference: Block 6 (11:10 - 12:50)

-Vorsitzende der Sitzung: David Marshall

time	[id] title	presenter
11:10	[42] The formation and ventilation of an Oxygen Minimum Zone in a simple model for latitudinally alternating zonal jets	KÖHN, Eike
11:30	[32] Spectrally resolved Lorenz Energy Cycle in the Ocean	EDEN, Carsten
11:50	[34] The Balance Conundrum	CHOUKSEY, Manita
12:10	[23] Do we need non-Boussinesq effects in an ocean general circulation model for climate simulations?	LOSCH, Martin
12:30	[14] Ocean Boundary Pressure: Insights and generalizations from Stommel and Munk models.	HUGHES, Chris

## Conference: Block 7 (13:50 - 15:10)

-Vorsitzende der Sitzung: Youyu Lu

time	[id] title	presenter
13:50	[4] Enhance Ocean Reanalysis in Regions with Limited Observations using a Time-Guided Physics-Informed Machine Learning Approach	KADOW, Christopher
14:10	[19] Quantification of Constrained Scales with an Ensemble Ocean Analysis	PETERSON, Andrew
14:30	[16] Improving Atmospheric Processes in Earth System Models with Deep Learning Ensembles and Stochastic Parameterizations	BEHRENS, Gunnar
14:50	[18] Extracting spatial spectra using coarse-graining based on implicit filters	DANILOV, Sergey

## Conference: Block 8 (15:40 - 17:00)

-Vorsitzende der Sitzung: Xiaoming Zhai

time	[id] title	presenter
15:40	[15] Exploring AMOC Dynamics: density vs. traditional z frameworks	SIDORENKO, Dmitry
16:00	[29] Dynamics of circumpolar volume transport and global ocean heat content	MARSHALL, David

16:20	[9] Asymmetries in heat and carbon uptake by the Southern and northern oceans	WILLIAMS, Ric
16:40	[10] Role of ocean memory in driving decadal thermal variability in the subpolar North Atlantic Ocean	KHATRI, Hemant