

2012 WHOI Postdoctoral Symposium

17 October 2012

The Jonsson Center of the National Academies, Woods Hole, MA

8:30 am	Introduction
---------	--------------

8:45-10:15	Session I	Chair: Joel Llopiz
8:45	Amy Maas (Bio) Impact of ocean basin on pteropod exposure and response to high CO ₂ and low O ₂	
9:00	Yawei Luo (MC&G) Data-based test of environmental controls on global oceanic nitrogen fixation	
9:15	Jean-Baptiste Gilet (PO) Eddy-driven exchanges at the shelf-break front	
9:30	Monica Rouco (Bio) Investigating Trichodesmium species distributions and the factors determining niche differentiation in the North Atlantic and North Pacific Oceans	
9:45	Clark Richards (PO) Energetics of shoaling internal waves and turbulence in an estuary	
10:00	Matt Wei (GG) Mechanism of shallow creep events on continental strike-slip faults	

10:15-10:45	Break
-------------	-------

10:45-12:15	Session II	Chair: Robert Todd
10:45	Jamey Fulton (MC&G) The <i>Emiliana huxleyi</i> -coccolithovirus lipidome in a changing ocean	
11:00	Peter Gaube (AOP&E) The response of phytoplankton to eddy-induced Ekman pumping in the interiors of mesoscale ocean eddies	
11:15	Karen Chan (Bio) Ocean acidification impacts on early life history stages of echinoderms	
11:30	Rachel Horwitz (PO) Wind-driven transport across the inner shelf: a numerical model and observation from Martha's Vineyard, MA	
11:45	Hongfeng Yang (GG) Seamount subduction and Megathrust earthquakes	
12:00	Larissa Williams (Bio) Developmental expression of the Nrf gene family	

12:15-1:15	Lunch
------------	-------

1:15-2:00	Poster Session
	<p>Chris Aepli (MC&G) Formation of oxygenated hydrocarbons upon oil weathering after the Deepwater Horizon disaster</p> <p>Nathalie Dubois (GG) Exploring the past and present hydrology of the Maritime Continent using leaf waxes</p> <p>Meg Estapa (MC&G) Rapid, autonomous particle flux observations in the oligotrophic ocean</p> <p>Chris Hein (MC&G) Preliminary evidence for climatic forcing of the dynamics of terrestrial organic-carbon export to the Bay of Bengal</p> <p>Yoshi Kaneko (GG) Interseismic deformation and creep along the central section of the North Anatolian fault</p> <p>Gauher Shaheen (PO) Deriving multiple geophysical parameters from satellite measurements using neural networks</p> <p>Robert Todd (PO) Horizontal scales of variability over the Middle Atlantic Bight shelfbreak and continental rise from finescale observations</p>
2:00-3:30	Session III Chair: Matt Wei
2:00	Mike Polito (Bio) Examining the trophic and migrational ecology of Antarctic penguins using stable isotopes
2:15	Nina Lebedeva-Ivanova (GG) How understanding of HARP may help to understand the Arctic Ocean
2:30	Mike Brosnahan (Bio) Keeping an automated eye on red tides in the Nauset Marsh
2:45	Ben Harden (PO) The ocean impact of Greenland barrier winds
3:00	Kate Mackey (MC&G) Optimizing photosynthesis for growth at different temperatures in marine <i>Synechococcus</i>
3:15	Melissa Omand (PO) Eddy-driven subduction of particulate carbon during the North Atlantic spring bloom
3:30-4:00	Break
4:00-5:00	Session IV Chair: Emre Ozdemir
4:00	Katie Shamberger (GG) Natural acidification of coral reef communities in the Western Tropical Pacific
4:15	Femke de Jong (PO) - Warm core eddies in the Labrador Sea
4:30	David Thornalley (GG) Iceland Scotland Overflow during past and future climate change
4:45	Frants Jensen (Bio) - Ganges river dolphins and evolution of biosonar signals through odontoceti
5:00	Concluding remarks
5:15-7:15	Reception

Attendees

Applied Ocean Physics & Engineering

Peter Gaube
Emre Ozdemir

Biology

Yara Bernaldo de Quiros
Mike Brosnahan
Karen Chan
Julia Diaz
Frants Jensen
Joel Llopiz
Amy Maas
Mike Polito
Monica Rouco
Francois Thomas
Larissa Williams
Ying Zhang

Geology & Geophysics

Jennifer Arbuszewski
Nathalie Dubois
Yoshi Kaneko
Nina Lebedeva-Ivanova
Katie Shamberger
David Thornalley
Davin Wallace
Matt Wei
Hongfeng Yang

Marine Chemistry & Geochemistry

Chris Aepli
Peter Andeer
Meg Estapa
Jamey Fulton
Chris Hein
Yawei Luo
Kate Mackey
Paul Morris
Lin Zhang
Tong Zhang

Physical Oceanography

Sylvia Cole
Jean-Baptiste Gilet
Ben Harden
Rachel Horwitz
Femke de Jong
Melissa Omand
Clark Richards
Gauher Shaheen
Robert Todd

USGS

Ilgar Safak

Academic Programs

Janet Fields

Communications

Lonny Lippsett
Kate Madin
Cherie Winner

Graphics

Matt Barton

Guests

Mary Barnhardt
Alicia Timme-Laragy