



## All-Hands Meeting

April 29 – May 2

Marriott Hotel, 2501 North Ocean Drive, Hollywood Beach, Florida, USA

## AGENDA

### Tuesday, April 29, 2014

18:00 – 19:30	<b>Science Café and Outreach Updates</b> Laura Bracken and Sharon Chinchilla <i>University of Miami, RSMAS</i>	Organic Brewery 290 Broadwalk Hollywood, FL 33019
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### Wednesday, April 30, 2014

08:00 – 09:00	<b>Registration and breakfast</b>	Salon B
09:00 – 09:10	Welcome and Updates: Tamay Özgökmen <i>University of Miami, RSMAS</i>	Salon A
09:10 – 09:40	<b>Presentations</b> Overview of the Surfzone and Coastal Oil Pathways Experiment (SCOPE) Speaker: Jamie MacMahan <i>Naval Postgraduate School</i>	
09:40 – 10:00	Dye Measurements during SCOPE Speaker: Jenna Brown (PhD student with Jamie MacMahan) <i>Naval Postgraduate School</i>	
10:00 – 10:20	Drifter Studies during SCOPE Speaker: Kate Woodall (MS student with Jamie MacMahan) <i>Naval Postgraduate School</i>	
10:20 – 10:40	<b>Coffee Break</b>	Pre-Function Area
10:40 – 11:00	Observations of Coastal Fronts during SCOPE from Satellite Remote Sensing Speaker: John Hargrove <i>CSTARS</i>	Salon A

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## Wednesday, April 30, 2014

11:00 – 11:20	Overview of Meteorological Measurements and Coupled Modeling during SCOPE Speaker: Falko Judt (PhD student with Shuyi Chen) <i>University of Miami, RSMAS</i>	Salon A
11:20 – 11:40	Surface Layer Transport – What We Learned from SCOPE Speaker: Ping Zhu <i>Florida International University</i>	
11:40 – 12:30	Tutorial 1: Air Sea Interaction – Importance of Small Scales Speaker: Brian Haus <i>University of Miami, RSMAS</i>	
12:30 – 13:40	<b>Lunch</b>	Salon B
13:40 – 14:00	Wind and Weather Conditions during SCOPE Speaker: Falko Judt (PhD student with Shuyi Chen) <i>University of Miami, RSMAS</i>	Salon A
14:00 – 14:20	Coupled Model Results from SCOPE Speaker: Milan Curcic (PhD student with Shuyi Chen) <i>University of Miami, RSMAS</i>	
14:20 – 14:40	Update on ADCIRC Coupling for Nearshore Simulations of Hurricane Isaac (2012) and SCOPE (2013) Speaker: Casey Dietrich <i>North Carolina State University</i>	
14:40 – 15:00	Real-Time High Resolution Modeling for SCOPE Speaker: Kacey Edwards <i>Naval Research Lab</i>	
15:00 – 15:20	Ocean Surface Deformation and Material Transport Upscaling Speaker: Gregg Jacobs <i>Naval Research Lab</i>	
15:20 – 15:40	Coffee Break	Pre-Function Area
15:40 – 16:00	Frontogenesis in the Presence of Stokes Forces Speaker: Baylor Fox-Kemper <i>Brown University</i>	Salon A

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## Wednesday, April 30, 2014

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|---------------|--|--------------|
| 16:00 – 16:20 | Multiphase Modeling of Oil Spill Fragmentation on the Sea Surface with and without Dispersant<br>Speaker: Alexander Soloviev<br><i>Nova Southeastern University</i>        | Salon A      |
| 16:20 – 17:10 | Tutorial 2: Upper Ocean Turbulence<br>Speaker: Darek Bogucki<br><i>Texas A&amp;M University, Corpus Christi</i>  |              |
| 17:10 – 17:30 | Progress in High-Resolution Sea Surface Observation from the GLAD Experiment<br>Speaker: Nathan Laxague (PhD student with Brian Haus)<br><i>University of Miami, RSMAS</i> |              |
| 17:30 – 17:45 | PROJETO AZUL: Drifters, Gliders and Data Assimilation in Brazil<br>Speaker: Francisco dos Santos<br><i>Prooceano</i>   |              |
| 17:45 – 18:00 | Biogeochemically Tracing Deep Exchanges between the Intra-American Seas<br>Speaker: Andrew Margolin (PhD student with Dennis Hansell)<br><i>University of Miami, RSMAS</i> |              |
| 19:00 – 20:00 | <b>Reception</b>   | Outdoor Area |

Aerial image of a dye release during SCOPE

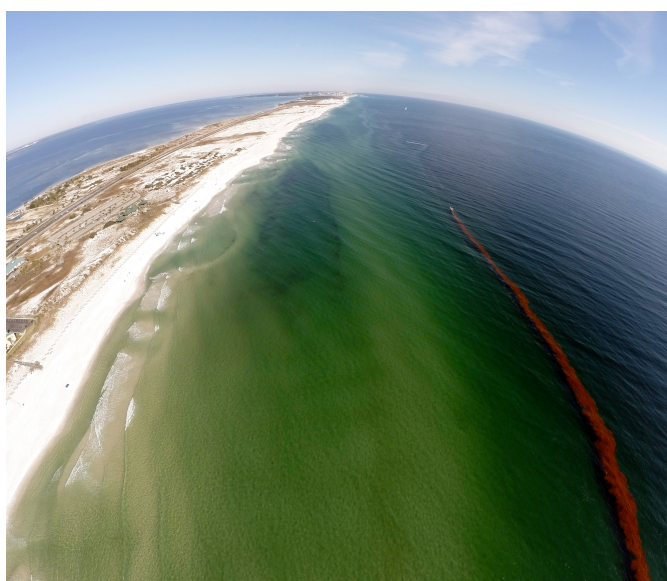


Photo Credit: Patrick Rynne

# AGENDA

**Thursday, May 1, 2014**

08:00 – 09:00	<b>Breakfast</b>	Salon B
9:00 – 09:30	Novel Observational Platforms for Rapidly-Evolving Submesoscales Speaker: Jeroen Molemaker and Dan Carlson <i>UCLA, CNR-ISMAR (Italy)</i>	
09:30 – 09:50	Progress in CARTHE Drifter Development and Experiments for Near-Surface Transport Speaker: Guillaume Novelli (Postdoctoral fellow with Tamay Özgökmen) <i>University of Miami, RSMAS</i>	
09:50 – 10:10	Modeling Dispersion from Drifters and Tracers in the Upper Ocean Speaker: Jean Mensa (PhD student with Tamay Özgökmen) <i>University of Miami, RSMAS</i>	
10:10 – 10:30	DNA Analysis of Surfactant Associated Bacteria in the Sea Surface Microlayer: Case Studies in the Straits of Florida and the Gulf of Mexico Speaker: Bryan Hamilton (MS student with Alex Soloviev) <i>Nova Southeastern University</i>	
10:30 – 10:50	<b>Coffee Break</b>	Pre-Function Area
10:50 – 11:40	Tutorial 3: Lagrangian Data Analysis – Methods and Applications Speaker: Annalisa Griffa <i>CNR, Italy</i>	Salon A
11:40 – 12:00	Instabilities and 3D Lagrangian Transport in Idealized Ocean Eddies Speaker: Peng Wang (PhD student with Tamay Özgökmen) <i>University of Miami, RSMAS</i>	
12:00 – 12:30	CARTHE Data Management Plans for 2014 Speaker: Bruce Lipphardt <i>University of Delaware</i>	
12:30 – 14:00	<b>Lunch</b>	Salon B
14:00 – 14:20	How does the Mississippi River Affect the Oil Plume? Speaker: Brad Rosenheim <i>University of South Florida</i>	Salon A

Thursday, May 1, 2014

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| 14:20 – 14:50 | Progress in CARTE Near-Field Multi-Phase Plume Modeling<br>Speaker: Alex Fabregat (Postdoctoral fellow with Andrew Poje)<br><i>City University of New York</i>  |                   |
| 14:50 – 15:10 | Another Look at Oil Plume Modeling<br>Speaker: Ashley Stroman (PhD student with William Dewar)<br><i>Florida State University</i>   |                   |
| 15:10 – 15:30 | Diel Vertical Migrations of Zooplankton and Turbulent Mixing:<br>Observations and Numerical Simulations<br>Speaker: Cayla Dean (MS student with Alex Soloviev)<br><i>Nova Southeastern University</i>   |                   |
| 15:30 – 15:50 | <b>Coffee Break</b>   | Pre-Function Area |
| 15:50 – 16:40 | Tutorial 4: A Primer on Blending Data and Models – A Bayesian<br>Perspective<br>Speaker: Juan Restrepo<br><i>University of Arizona</i>  | Salon A           |
| 16:40 – 17:00 | Toward Efficient Parameterization of Oil Transport from First<br>Principles<br>Speaker: Shankar Venkataramani<br><i>University of Arizona</i>   |                   |
| 17:00 – 17:30 | Quantifying the Impact of Droplet Size and Sub-Grid Scale<br>Parameter Uncertainties on a Lagrangian Oil-Fate Model<br>Speaker: Rafael Gonçalves (PhD student with Mohamed Iskandarani)<br><i>University of Miami, RSMAS</i>                  |                   |
| 17:30 – 17:20 | Propagating Parametric Uncertainties Through an Integral Plume<br>Model Using a Non-Intrusive Polynomial Chaos Method<br>Speaker: Shitao Wang (PhD student with Mohamed Iskandarani)<br><i>University of Miami, RSMAS</i>                     |                   |
| 17:20 – 17:40 | Inertial Currents in the Northeastern Gulf of Mexico during the<br>GLAD Experiment<br>Speaker: Matt Gough (PhD student with Ad Reniers)<br><i>University of Miami, RSMAS</i>  |                   |
| 17:40 – 18:00 | The Four-dimensional variational data assimilation for the Navy<br>coastal ocean model: application to GLAD data and satellite SSH<br>in the Gulf of Mexico.<br>Speakers: Hans Godock and Matthew Carrier<br><i>NRL, Stennis Space Center</i> |                   |

## AGENDA

### Friday, May 2, 2014

07:30 – 08:30	<b>Breakfast</b>	Salon B
08:30 – 10:30	CARTHE Closed Session	Salon A
10:30 – 10:50	<b>Coffee Break</b>	Pre-Function Area
10:50 – 12:30	CARTHE Closed Session	Salon A
12:30 – 14:00	<b>Lunch</b>	Salon B
14:00 – 15:30	CARTHE Closed Session	Salon A
15:30 – 15:50	<b>Coffee Break</b>	Pre-Function Area
15:50 – 16:30	CARTHE Closed Session	Salon A

Roland Brouwer and Conor Smith watching the first lift off of one of the drones used in SCOPE.

