



CARTHE II – 2016 Fall All-Hands Meeting

November 15 and 16, 2016

University of Miami - Rosenstiel School of Marine and Atmospheric Science

AGENDA

Tuesday, November 15

07:30 – 08:30	Registration and Buffet Breakfast	RSMAS Commons
08:30 – 08:40	Welcome Tamay Özgökmen <i>University of Miami, RSMAS</i>	RSMAS Auditorium
	Plume Session:	
08:40 – 09:00	Bill Dewar, <i>Florida State University</i> The impact of live oil on near-field convection.	
09:00 – 09:20	Alex Fabregat, <i>City University of New York</i> Numerical simulations of live oil plumes in stratified environments.	
09:20 – 09:40	Daria Frank, <i>Cambridge University</i> Plumes in a rotating environment: experiments and numerical simulations.	
09:40 – 10:00	Cortis Cooper, <i>Chevron Corp., retired</i> Recent advances in understanding the effectiveness of subsea dispersants.	
10:00 – 10:20	Hadi Hajieghrary, <i>Drexel University</i> Information theoretic source seeking for plume tracking in 3D turbulent fields.	



Tuesday, November 15

10:20 – 10:40	Coffee Break	MSC Breezeway
	Airborne and Ship-Based Remote Sensing Session	RSMAS Auditorium
10:40 – 11:00	Ernesto Rodriguez, <i>JPL/CalTech</i> NASA's AirSWOT in LASER and DopplerScatt in SPLASH.	
11:00 – 11:20	Björn Lund, <i>University of Miami</i> Marine radar near-surface current mapping during LASER.	
11:20 – 11:40	Henry Chang, <i>University of Delaware</i> Relative dispersion and clustering of LASER aerostat-observed driftcards.	
11:40 – 12:00	Nicolas Rascle, <i>IFremer</i> Multi-angle airborne observation during LASER experiment.	
12:00 – 12:20	Darek Bogucki, <i>TAMU-CC</i> Overview of turbulence measurements in LASER.	
12:20 – 13:20	Lunch	RSMAS Commons
	Modelling Session	RSMAS Auditorium
13:20 – 13:40	Victoria Broje, <i>Shell Corp.</i> Modeling for comparative risk assessment of spill response techniques.	
13:40 – 14:00	Roy Barkan, <i>UCLA</i> Submesoscale statistics in the northern Gulf of Mexico: the role of river outflow.	
14:00 – 14:20	Jun Choi, <i>Georgia Institute of Technology</i> Riverine effects on submesoscale features in the northern Gulf of Mexico: Lagrangian perspective.	
14:20 – 14:40	Arash Fathi, <i>UT-Austin</i> Simulation of surface oil transport in the Gulf of Mexico, during the DWH oil spill, using 3D baroclinic ADCIRC, on a high-resolution unstructured finite element grid	
14:40 – 15:00	Peng Wang, <i>University of Miami</i> Simulation of Langmuir circulations without parameterizing the vortex force	



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15:00 – 15:20	John Taylor, <i>Cambridge University</i> Large eddy simulations of buoyant tracers at submesoscale fronts.	
15:20 – 15:40	Coffee Break	MSC Breezeway
	Data Synthesis Session	RSMAS Auditorium
15:40 – 16:00	Rafael Gonçalves, University of Miami Reconstruction of the velocity field from Lagrangian observations using Gaussian process regression.	
16:00 – 16:20	Helga Huntley, University of Delaware Clustering behavior of LASER drifters, observed and modeled.	
16:20 – 16:40	Milan Curcic, University of Miami Contrasting weather and sea state conditions in 2015 and 2016 El Nino over the GoM: coupled modeling and observations.	
16:40 – 17:00	Javier Beron-Vera, University of Miami Dynamical geography of the Gulf of Mexico	
17:00 – 17:20	Jean Mensa, Yale University Lagrangian dispersion in the Beaufort Sea: Fall 2016 cruise and preliminary results	
17:20 – 17:40	Cayla Dean, Nova Southeastern University Diel vertical migration of zooplankton: Numerical modeling of the effect of oil emulsions and freshwater lenses.	
18:00 – 20:00	Welcome Reception	RSMAS Commons

Wednesday, November 16

08:00 – 09:00	Breakfast	RSMAS Commons
	SPLASH Session	RSMAS Auditorium
09:00 – 09:15	Jeroen Molemaker, <i>UCLA</i> Overview of SPLASH.	
09:15 – 10:00	Baylor Fox-Kemper, Brown University & Dan Carlson, FSU SPLASH-C1: Small scale (10m - 1km) dispersion in the surface layer due to waves, Langmuir circulation, and mixed layer turbulence.	
10:00 – 10:45	Andrey Scherbina, <i>University of Washington</i> SPLASH C2: Submesoscale processes on the shelf at scales between 100m and 20km.	
10:45 – 11:00	Coffee Break	MSC Breezeway
11:00 – 11:45	Brian Haus, <i>University of Miami</i> SPLASH-C3: Air-sea interaction.	RSMAS Auditorium
11:45 – 12:30	Jamie McMahan, NPS & Arnaldo Valle-Levinson, University of Florida SPLASH-C4: Nearshore circulation and exchange.	
12:30 – 13:30	Lunch	RSMAS Commons
13:30 – 15:10	Plume Group Discussion Session: moderated by Michel Bouffadel.	MSC Conference Rm.
13:30 – 14:10	LASER Publications Discussion Session: moderated by Eric D’asaro or Tamay Özgökmen.	RSMAS Auditorium
14:10 – 14:30	Lucas Laurindo, University of Miami An improved surface velocity climatology for the global ocean from drifter observations	
14:30 – 14:50	Rosemary Cyriac, North Carolina State University Towards models for barotropic and baroclinic circulation in the Choctawhatchee Bay and River System	
14:50 – 15:10	<i>Jenna Palmer, Brown University</i> <i>Preparing for model-data comparison: structure functions and frontogenesis</i>	
15:10 – 15:30	Coffee Break	RSMAS Breezeway
15:30 – 17:30	<i>SPLASH Logistics Discussion Session: moderated by Jeroen Molemaker</i>	RSMAS Auditorium