



CARTHE II – 2016 Spring All-Hands Meeting

May 11 and 12, 2016

UM Student Center Complex, 1330 Miller Drive, Coral Gables, Florida

AGENDA



Wednesday, May 11, 2016

07:30 – 08:30	Registration and Buffet Breakfast	Pre-Function Area
08:30 – 08:35	Welcome Tamay Özgökmen <i>University of Miami, RSMAS</i>	Grand Ballroom (Center)
08:35 – 08:45	Opening Address Chuck Wilson Chief Scientific Officer, GoMRI	
08:45 – 09:00	State of the CARTHE Tamay Özgökmen <i>University of Miami, RSMAS</i>	
	Session I on LASER	
09:00 – 09:20	LASER Overview Eric D'Asaro <i>University of Washington</i>	
09:20 – 09:40	Scale-dependent 2-point statistics in LASER Andrew Poje <i>City University of New York, Staten Island</i>	
09:40 – 10:00	Phase II: Freshwater plume frontal instabilities Jody Klymak <i>University of Victoria</i>	



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10:00 – 10:20	LDA Results Andrey Shcherbina <i>University of Washington</i>	Grand Ballroom (Center)
10:20 – 10:40	Coffee Break	Pre-Function Area
	Session II on LASER	
10:40 – 11:00	Aerial observations during LASER Jeroen Molemaker <i>University of California, Los Angeles</i>	Grand Ballroom (Center)
11:00 – 11:20	An overview of aerostat operations during LASER Dan Carlson <i>Florida State University</i>	
11:20 – 11:40	Weather and sea states during LASER Shuyi Chen <i>University of Miami, RSMAS</i>	
11:40 – 12:00	Airborne and wave glider measurements during LASER Ken Melville and Luc Lenain <i>SCRIPPS</i>	
12:00 – 12:20	Overview of upper ocean turbulence measurements in LASER Darek Bogucki <i>Texas A&M University, Corpus Christi</i>	
12:20 – 13:20	Lunch	Pre-Function Area
	Session III on LASER	
13:20 – 13:40	Surface roughness, current, wave and flux observations during LASER Brian Haus <i>University of Miami, RSMAS</i>	Grand Ballroom (Center)
13:40 – 14:00	An algorithm for drogue-loss detection during LASER Angelique Haza <i>University of Miami, RSMAS</i>	
14:00 – 14:20	An improved drifter design against drogue loss Cedric Guigand <i>University of Miami, RSMAS</i>	



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14:20 – 14:40	How do drifters and drift cards move compared to oil? Guillaume Novelli <i>University of Miami, RSMAS</i>	Grand Ballroom (Center)
14:40 – 15:00	Very near-surface Lagrangian statistics from drift cards Jean Mensa, <i>Yale University</i> Dan Carlson, <i>Florida State University</i> Tamay Özgökmen, <i>University of Miami</i>	
15:00 – 15:20	Perspectives on particle tracking for LASER aerostat data Henry Chang <i>University of Delaware</i>	
15:20 – 15:40	Coffee Break	Pre-Function Area
	Session IV on LASER and Modeling	
15:40 – 16:00	Simulating LASER’s submesoscales Jim McWilliams and Roy Barkan <i>University of California, Los Angeles</i>	Grand Ballroom (Center)
16:00 – 16:20	Lagrangian transport in ROMS simulations Annalisa Bracco <i>Georgia Institute of Technology</i>	
16:20 – 16:40	LAVA analysis and triplet methodologies for LASER drifters Annalisa Griffa and Maristella Berts CNR-ISMAR	
16:40 – 17:00	Inertial effects on surface drifter motion Javier Beron-Vera <i>University of Miami, RSMAS</i>	
17:00 – 17:20	LASER’s challenge to ocean prediction Gregg Jacobs <i>Naval Research Laboratory – Stennis Space Center</i>	
17:20 – 17:40	Mixed layer dispersion of buoyant tracers Ramsey Harcourt <i>University of Washington</i>	
17:40 – 18:00	Wall-modeling in LES and RANS of Langmuir turbulence in shallow water Andres Tejada-Martinez <i>University of South Florida</i>	



Thursday, May 12, 2016

07:30 – 08:00	Breakfast	Pre-Function Area
	Session on Oil and Plume Dynamics	
08:00 – 08:20	Recent progress on near-field modeling Bill Dewar <i>Florida State University</i>	Grand Ballroom (Center)
08:20 – 08:40	Experiments on point plumes in a homogeneous rotating environment Daria Frank <i>Cambridge University</i>	
08:40 – 09:00	Simulations of rotating plumes - direct comparisons with Cambridge experiments Alex Fabregat <i>City University of New York, Staten Island</i>	
09:00 – 09:20	Interaction of methane bubbles and oil droplets Michel Boufadel <i>New Jersey Institute of Technology</i>	
09:20 – 09:40	Capillary effects in the dynamics of surface oil spills Alex Soloviev <i>Nova Southeastern University</i>	
09:40 – 10:00	Coffee Break	Pre-Function Area
	Session on SCOPE and SPLASH	
10:00 – 10:20	SPLASH - Submesoscale Processes and Lagrangian Analysis on the Shelf Jeroen Molemaker <i>University of California, Los Angeles</i>	Grand Ballroom (Center)
10:20 – 10:40	On the accuracy of TKE dissipation parameterizations in the inner shelf Kimberly Huguenard <i>University of Maine</i>	
10:40 – 11:00	Updates on coastal modeling Casey Dietrich <i>North Carolina State University</i>	



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11:00 – 11:20	Evaluation of surface layer flux parameterization using meteorological tower data collected in SCOPE Jeremy Katz <i>Florida International University</i>	Grand Ballroom (Center)
Session of Future-looking Methods		
11:20 – 11:40	Bringing CARTHE to the Arctic: upper-ocean dynamics under sea ice. Jean Mensa <i>Yale University</i>	
11:40 – 12:00	Passive optical sensing of the near-surface, wind-driven current profile Nathan Laxague <i>University of Miami, RSMAS</i>	
Session on Data Management		
12:00 – 12:20	<i>Big data challenges: what to do to be compliant.</i> Helga Huntley <i>University of Delaware</i>	
12:20 – 13:30	Lunch	Pre-Function Area
Breakout Group Discussions, I		
13:30 – 15:30	<ul style="list-style-type: none"> - LASER data analysis and publications: moderated by Eric D’Asaro - Oil and plume group: moderated by Michel Bouffadel 	Grand Ballroom (East, Center, West)
15:30 – 16:00	Coffee Break	Pre-Function Area
Breakout Group Discussions, II		
16:00 – 17:30	<ul style="list-style-type: none"> - SPLASH outlook: moderated by Jeroen Molemaker 	Grand Ballroom (East, Center, West)

End of general meeting