

# Curriculum Vitae – Mark A. Bourassa

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## **Professional Preparation**

- 08/90 – 12/93      Ph.D., Purdue University, West Lafayette, Indiana. Major: Atmospheric Sciences (Tropical Meteorology). Dissertation: A flux parameterization including the effects of capillary waves and sea state. Dissertation supervisor: Dayton Vincent.
- 09/86 – 05/89      M.Sc., University of Alberta, Edmonton, Alberta, Canada. Major: Meteorology. Thesis: A risk analysis of the accretion of wet snow on transmission lines. Thesis supervisor: Edward Lozowski.
- 09/81 – 05/85      B.Sc., University of Alberta, Edmonton, Alberta, Canada. Major: Physics.

## **Post-Doctoral Education**

- 1996 – 2002      Research Associate, Center for Ocean-Atmospheric Prediction Studies, Florida State University, Tallahassee, Florida.
- 1994 – 1995      Office of Naval Research Postdoctoral Fellow, College of Marine Studies, University of Delaware, Lewes, DE.

## **Professional Experience**

- 2002 – 2008      Assistant Professor – Department of Meteorology and Center for Ocean–Atmospheric Prediction Studies, College of Arts and Sciences, Florida State University.
- 2004 –              Geophysical Fluid Dynamics Institute Associate – GFDI, College of Arts and Sciences, Florida State University.
- 2008 - 2010      Associate Professor - Department of Meteorology and Center for Ocean–Atmospheric Prediction Studies, College of Arts and Sciences, Florida State University.
- 2010 - 2013      Associate Professor - Department of Earth, Ocean, and Atmospheric Sciences and Center for Ocean–Atmospheric Prediction Studies, College of Arts and Sciences, Florida State University.
- 2013 -              Professor - Department of Earth, Ocean, and Atmospheric Sciences and Center for Ocean–Atmospheric Prediction Studies, College of Arts and Sciences, Florida State University.

**Membership in Professional Organizations**

American Geophysical Union

American Meteorological Society

Institute of Electrical and Electronics Engineers (IEEE) Geosciences &amp; Remote Sensing Society

International Pan Oceanic Remote Sensing Conference Association (PORSEC)

**ACTIVITIES AND HONORS**

ONR Ocean Science Postdoctoral Fellow	1994 – 1995
Science Working Team, NASA NSCAT mission	1996 – 1999
Ocean Vector Winds Science Team, NASA/OSU QuikSCAT mission	1998 –
Co-chair for QuikSCAT surface truth	1998 – 2005
AMS Committee on Interaction of the Sea and Atmosphere	2003 – 2006
Next Vector Winds Mission Science Working Group	2003 – 2004
Shipboard Automated Meteorological and Oceanographic Systems (SAMOS) Working Group	2005 –
SEAFLUX Working Group	2005 –
NOAA Expert Team on the State of the Ocean	2005 –
NASA Tropical Cloud Systems and Processes (TCSP) science team	2005 – 2008
Associate Editor Journal Atmospheric and Oceanic Technology	2007 – 2009
Co-chair of the (USCLIVAR) High Latitude Surface Fluxes Working Group	2008 – 2012
NASA Ocean Vector Winds Science Team Leader	2008 –
NASA PO.DAAC User Working Group	2008 –
William T. Pecora Award for the QSCAT mission team	2008
Participations in ASCAT Science Advising Group	2008 –
GCOM-W2 Joint Research and Operational User Working Group	2009 –
NASA NEWS Science team	2009 –
Chair, International Ocean Vector Winds Science Organizing Com.	2010 –
NASA Sea Surface Temperature Science team	2010 –
Co-chair Ocean Observations Panel for Climate	2013 –
Co-chair Joint Commission on Marine Meteorology (JCOMM) cross-cutting Task Team on Satellite Data requirements	2013 –

## TEACHING

### Courses Taught

MET2700	General Meteorology (Fall of 2003, 2004, 2006, 2008, and 2009)
MET3220C	Computational Meteorology (Spring of 2006 and 2007)
MET4450/5451	Physical Meteorology II / Advanced Physical Meteorology II (Spring of 2005, 2008, 2009, 2010, 2011, 2013)
MET6480	Advanced Topics in Physical Meteorology: Applied Satellite Remote Sensing (Fall 2013)
OCP5551	Physics of the Air-Sea Boundary-Layer (Spring of 2003 and 2004; Fall of 2005, 2007, 2010, and 2012)
MET5930	Masters Seminar (Spring 2010)
MET6930	Ph.D. Seminar (Spring 2010)

### Chair of Doctoral Dissertation Supervisory Committees (total of 10)

Ryan Maue	(Sum. 2010)	Evolution of Frontal Structure Associated with Extratropical Transitioning Hurricanes
Stephen Guimond <sup>1</sup>	(Fall 2010)	Tropical Cyclone Inner-Core Dynamics: A Latent Heat Retrieval and its Effects on Intensity and Structure Change; and the Impacts of Effective Diffusion on the Axisymmetrization Process.
Aaron Paget	(Summ. 2013)	Important contributing factors for estimating the active and total whitecap coverage globally using satellite-derived parameters
Paul Hughes	(ongoing)	The Influence of Small-Scale Sea Surface Temperature Gradients on Surface Vector Winds and Subsequent Impacts on Oceanic Ekman Pumping
Kyle Ahern	(ongoing)	High-Latitude Cyclones
Heather Holbach	(ongoing)	
Samira Daneshga <sup>2</sup>	(ongoing)	
Qi Shi	(ongoing)	
John Steffen	(ongoing)	
Rachel Weihs	(ongoing)	

### Member of Doctoral Dissertation Supervisory Committees (total of 17)

Tachanat Bhatrasataponkul	(ongoing)
Lakshika Girihagama	(ongoing)
Nick Heath	(ongoing)
Nam-Young Kang	(ongoing)
Holly Newell	(ongoing)
Christopher Selman	(ongoing)
Ryan Truchelut	(ongoing)
Austin Todd	(Spring, 2013)

<sup>1</sup> Co-chair with Paul Reasor

<sup>2</sup> Co-chair with Ian McDonald

Mona Behl	(Summer 2012)
Rose Njoroge	(Fall 2011)
Brent Roberts	(Fall 2011)
Philip Hayes	(Summer 2011)
Luke Peffers	(Spring 2011)
Henry Winterbottom	(Fall 2010)
Christelle Castet	(Fall 2009)
Jeremiah Brown	(Fall 2008)
Matt Carrier	(Fall 2007)
Sujata Dash	(Fall 2005)
Yoo-Jeong Noh	(Fall 2005)

**Chair of Master's Thesis Supervisory Committees** (total of 25)

Matthew Clark	(ongoing)	Oil Transport through Stokes Drift for DWH Oil Slick
Russell Glazer <sup>3</sup>	(ongoing)	Influence of small scale SST gradients in tropical cyclone genesis
Li Keqiai	(ongoing)	Bias adjustment of the historical record of visually observed winds from volunteer observing ships
Kevin Formy	(Sum. 2014)	None
John Steffen	(Sum. 2014)	The Effects of Sea Surface Temperature Gradients On Surface Turbulent Fluxes
Robbie Nedbor-Gross <sup>4</sup>	(Fall 2013)	Investigation of the relationship between the Yucatan Channel transport and the loop current area in a multi-decadal numerical simulation
Cristina Collier	(Sum. 2012)	Effects of Sea State on Offshore Wind Resourcing
Heather Holbach	(Sum. 2012)	The Effects of Gap-Wind-Induced Vorticity, the Monsoon Trough, and the ITCZ on Tropical Cyclogenesis
Benton Farmer <sup>2</sup>	(Spring 2012)	Evaluation of bulk heat fluxes from atmospheric data sets
Racheal Weihs	(Spring 2012)	Modeled Diurnally Varying Sea Surface Temperatures and Their Influence On Surface Heat Fluxes
Joel Scott <sup>5</sup>	(Sum. 2011)	An Intercomparison Of Numerically Modeled Flux Data And Satellite-Derived Flux Data For Warm Seclusions
Jackie May	(Fall 2010)	Quantifying Variance due to Temporal and Spatial Difference Between Ship and Satellite Winds
Steven DeNapoli	(Fall 2010)	Determining the Error Characteristics of H*Wind
Marcus Williams <sup>2</sup>	(Sum. 2010)	Characterizing Multi-Decadal Temperature Variability In The Southeastern United States
Joshua Griffin	(Spring 2010)	Characterization of Errors in Various Moisture Roughness Length Parameterizations
Kelly McBeth	(Fall 2008)	Uncertainty of Scatterometer-Derived Vorticity
David Moroni	(Sum. 2008)	A Global and Regional Diagnostic Comparison of Air-Sea Flux Parameterizations During Episodic Events
Michelle Stewart	(Sum. 2007)	Cyclogenesis and Tropical Transition in Frontal Zones

<sup>3</sup> Co-chair with Bob Hart

<sup>4</sup> Co-chair with Eric Chassignet

<sup>5</sup> Co-chair with Carol Anne Clayson

Steve Guimond	(Spring 2007)	A Diagnostic Study of the Effects of Trough Interactions on Tropical Cyclone QPF
Kristen Briggs	(Fall 2006)	ENSO Event Reproduction: A Comparison of an EOF vs. Cyclostationary (CEOF) Approach
Jeffrey Taylor	(Fall 2006)	Comparison of ECMWF and QuikSCAT-Derived Surface Pressure Gradients
Paul Hughes	(Spring 2006)	North Atlantic Decadal Variability of Ocean Surface Fluxes
Robert Banks	(Fall 2005)	Variability of Indian Ocean Surface Fluxes Using a New Objective Method
Khara Lombardi	(Fall 2004)	Resolving the Diurnal and Synoptic Variability of Scatterometer Vector Wind Observations

**Member of Master's Thesis Supervisory Committees** (total of 39)

Sun Jie	(ongoing)	Scott Rudlosky	(Summer 2007)
Duygu Aktas	(ongoing)	Rebecca Smith	(Summer 2007)
Qi Shi	(ongoing)	Will Sexton	(Spring 2007)
Stas Spearinsky	(ongoing)	Elizabeth Minter	(Fall 2006)
James Duncan	(Sum. 2013)	Henry Winterbottom	(Fall 2006)
Eric Mortenson	(Sum. 2103)	Michael Hanggi	(Spring 2006)
Katie Moore	(Sum. 2012)	Andrew Kimball	(Summer 2005)
Grayum Vickers	(Sum. 2012)	Michelle Hite	(Fall 2005)
Geoff Montee	(Fall 2011)	Derrick Weitlich	(Fall 2004)
Ashly Stroman	(Fall 2011)	Ryan Maue	(Summer 2004)
Lauren Moeller	(Sum. 2011)	Justin Brolley	(Fall 2004)
Alec Bogdanoff	(Spring 2011)	Pete Bogenschultz	(Fall 2004)
Andrew Murray	(Spring 2010)	Brian Jones	(Summer 2004)
John Smith	(Spring 2010)	Shannon Davis	(Fall 2002)
Jacob Rettig	(Spring 2010)	Kyle Hilburn	(Fall 2002)
Chin-Ying Chien	(Fall 2009)	Phillip Pegion	(Fall 1999)
Brent Roberts	(Fall 2008)	Ryan Sharp	(Fall 1999)
Christine Hamman	(Fall 2007)	Kathy Verzone	(Fall 1999)
David Ryglicki	(Fall 2007)	David Zierden	(Fall 1998)
Lauren Davison	(Summer 2007)		

**Chair of Undergraduate Honors Thesis Committees** (total of 7)

Connor Dacey	(2015) Accuracy of pressure gradients near tropical cyclones in operational analyses
Lauren Zuromski	(2015) TBD
Antonio Cruz	(2014) Bias Assessment of rain-related errors in tropical Pacific remotely sensed winds
Alexandra Keclik	(2014) Accuracy of Atlantic tropical cyclone landfall forecasts
Johna Rudzin	(2012) The influence of atmospheric cold-air outbreaks on the upper-ocean thermal variability of the Florida Straits
Rochelle Worsnop	(2012) Statistics of extreme temperature occurrences in the southeastern United States
Nick Heath	(2011) Determining the effects of Stokes drift on the movement of oil in the Gulf of Mexico
Heather Holbach	(2010) Vorticity-based detection of tropical cyclogenesis in the eastern Pacific basin

**Member (not chair) of Undergraduate Honors Thesis Committees** (total of 4)

Lauren Visin	(2014)
Sean Freeman	(2014) Vertical Transport of Trace Gases in Tropical Cyclones
Abby Spanger	(2013) When, Where, And Why: Ovisposition Site Preference And Reproductive Seasonality Of <i>Nerita Scabricots</i>
Josh Cossuth	(2010) Climatology of Dvorak classifications for operational probabilistic genesis forecasts

**Refereed Journal Articles Published, In Press, and Submitted** (total of 60; 807 citations)

- Holbach, H. M.<sup>1</sup>, and **M. A. Bourassa**, 2014: The effects of gap–wind–induced vorticity, the monsoon trough, and the ITCZ on tropical cyclogenesis. *Mon. Wea. Rev.*, **142**, 1312-1325. doi: 10.1175/MWR-D-13-00218.1
- Nedbor-Gross, R., D. S. Dukhovskoy, **M. A. Bourassa**, S. L. Morey, E. P. Chassignet, 2014: Investigation of the relationship between the Yucatan Channel transport and the Loop Current area in a multi-decadal numerical simulation. *Marine Technology Society Journal*, **48**, 15 - 26.
- Vose, R. S. S. Applequist, **M. A. Bourassa**, S. C. Pryor, R. J. Barthelmie, B. Blanton, P. D. Bromirski, H. E. Brooks, A. T. DeGaetano, R. M. Dole, D. R. Easterling, R. E. Jensen, T. R. Karl, K. Klink, R. W. Katz, M. C. Kruk, K. E. Kunkel, M. C. MacCracken, T. C. Peterson, B. R. Thomas, X. L. Wang, J. E. Walsh, M. F. Wehner, D. J. Wuebbles, and R. S. Young, 2014: Monitoring and Understanding Changes in Extremes: Extratropical Storms, Winds, and Waves. *Bull. Amer. Meteor. Soc.*, **95**, 377 - 386. DOI: <http://dx.doi.org/10.1175/BAMS-D-12-00162.1>
- Weih, R., and **M. A. Bourassa**, 2014: Modeled diurnally varying sea surface temperatures and their influence on surface heat fluxes. *J. Geophys. Res.*, **119**, 4101–4123, doi:10.1002/2013JC009489.
- Zheng, Y., R. Zhang, and **M. A. Bourassa**, 2014: Impact of east Asian winter and Australian summer monsoons on the enhanced surface westerlies over the western tropical Pacific preceding the El Niño onset. *J. Clim.*, (accepted).
- Ali, M. M., G. S. Bhat, D. G. Long, S. Bharadwaj, **M. A. Bourassa**, 2013: Estimating wind stress at the Ocean surface from scatterometer observations. *IEEE GRSL*, **10**. 1129 – 1132. doi:10.1109/LGRS.2012.2231937 [0 Citations]
- Bourassa, M.**, S. Gille, C. Bitz, D. Carlson, I. Cerovecki, M. Cronin, W. Drennan, C. Fairall, R. Hoffman, G. Magnusdottir, R. Pinker, I. Renfrew, M. Serreze, K. Speer, L. Talley, and G. Wick, 2013: High-latitude ocean and sea ice surface fluxes: requirements and challenges for climate research. *Bull. Amer. Meteor. Soc.* **94**, 403 - 423. <http://dx.doi.org/10.1175/BAMS-D-11-00244.1> [4 citations]
- Purna Chand Ch, M. V. Rao, I. V. Ramana, M. M. Ali, J. Patoux, and **M. A. Bourassa**, 2013: Estimation of Sea-Level Pressure Fields during Cyclone Nilam from Oceansat-2 Scatterometer Winds, *Atmos. Sci. Let.*, (on line). DOI: 10.1002/asl2.473 [0 Citations]
- Rudzin<sup>2</sup>, J. E., S. L. Morey, **M. A. Bourassa**, and S. R. Smith, 2013: The influence of loop current position on winter sea surface temperatures in the Florida Straits. *Earth Interactions*, **17**, 9 pgs. DOI: 10.1175/2013EI000521.1 [0 Citations]
- Zheng, Y., **M. A. Bourassa**, and P. J. Hughes, 2013: Influences of sea surface temperature gradients and surface roughness changes on the motion of surface oil: a simple idealized study. *J. Appl. Meteor. Clim.*, **52**, 1561 - 1575. DOI: 10.1175/JAMC-D-12-0211.1 [0 citations]

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<sup>1</sup> Underlined authors are students whose research pertinent to this publication was supervised by Mark Bourassa

<sup>2</sup> highlight indicates papers where the student was an undergraduate

- DiNapoli, S. M., **M. A. Bourassa**, and M. D. Powell, 2012: Uncertainty and intercalibration analysis of H\*Wind. *J. Atmos. Oceanic Technol.*, **29**, 822-833. [0 citations]
- Hughes, P., and **M. A. Bourassa**, J. Rolph, and S. R. Smith, 2012: Averaging-Related Biases in Monthly Latent Heat Fluxes. *J. Atmos. Oceanic Technol.*, 29(7), 974-986. DOI: 10.1175/JTECH-D-11-00184.1 [1 citation]
- Guimond, S. R., **M. A. Bourassa** and P. D. Reasor, 2011: A latent heat retrieval and its effects on the intensity and structure change of Hurricane Guillermo (1997). Part I: the algorithm and observations. *J. Atmos. Sci.*, **68**, 1549-1567. [5 citations]
- Knapp K. R., S. Ansari, C. L. Bain, **M. A. Bourassa**, M. J. Dickinson, C. Funk, C. N. Helms, C. C. Hennon, C. D. Holmes, G. J. Huffman, J. P. Kossin, H.-T. Lee, A. Loew, and G. Magnusdottir, 2011: Globally gridded satellite observations for climate studies. *Bull. Amer. Meteor. Soc.*, **92**, 893-907. [10 citations]
- Liu, J., J. A. Curry, C. A. Clayson, and **M. A. Bourassa**, 2011: High-resolution satellite surface latent heat fluxes in North Atlantic hurricanes. *Mon. Wea. Rev.*, **139**, 2735-2747. [4 citations]
- May, J., and **M. A. Bourassa**, 2011: Quantifying variance due to temporal and spatial difference between ship and satellite winds. *J. Geophys. Res.*, **116**, DOI:10.1029/2010JC006931 [3 citations]
- Smith, S. R., **M. A. Bourassa**, and D. L. Jackson, 2012: Supporting Satellite Research With Data Collected by Vessels. *Sea Tech.*, June 2012, 21 – 24. [0 citations]
- Smith, S., P. Hughes, and **M. Bourassa**, 2011: A comparison of nine monthly air-sea flux products. *Internat. J. Climatol.*, **31**, 1002-1027, doi: 10.1002/joc.2225. [12 citations]
- Smith, R.S., **M.A. Bourassa**, and M. Long, 2011: Pirate attacks affect Indian Ocean climate research. *Eos*, **92**, 225-226. [3 citations<sup>3</sup>]
- Weissman, D. E., and **M. A. Bourassa**, 2011: The influence of rainfall on scatterometer backscatter within tropical cyclone environments – implications on parameterization of sea surface stress. *Trans. Geosci. Remote Sens.*, **49**, 4805-4814, DOI 10.1109/TGRS.2011.2170842 [0 citations]
- Bourassa, M. A.**, and K. McBeth-Ford, 2010: Uncertainty in scatterometer-derived vorticity, *J. Atmos. Oceanic Technol.* **27**, 594 – 603. DOI: 10.1175/2009JTECHO689.1 [10 citations]
- Bourassa, M. A.**, S. Gille, D. L. Jackson, B. J. Roberts, and G. A. Wick, 2010: Ocean Winds and Turbulent Air-Sea Fluxes Inferred From Remote Sensing. *Oceanography*, **23**, 36-51. [8 citations]
- Morey, S. L., D. S. Dukhovskoy, and **M. A. Bourassa**, 2009: Connectivity between variability of the Apalachicola River flow and the bio-optical oceanic properties of the northern West Florida Shelf. *Continental Shelf Research*, doi:10.1016/j.csr.2009.02.003. [15 citations]
- Wallcraft, A. J., Kara, A. B., C. N. Barron, E. J. Metzger, R. Pauley and **M. A. Bourassa**, 2009: Comparisons of Monthly Mean 10m Wind Speeds from Satellites and NWP Products over the Global Ocean, *J. Geophys. Res.*, **114**, D16109, doi:10.1029/2008JD011696. [13 citations]

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<sup>3</sup> Not tracked by Web of Science; number based on peer reviewed journals listed in Google Scholar search



- Kara, A. B., A. J. Wallcraft, and **M. A. Bourassa**, 2008: Air-Sea Stability Effects on the 10m Winds Over the Global Ocean: Evaluations of Air-Sea Flux Algorithms. *J. Geophys. Res.*, **113**, C04009, doi:10.1029/2007JC004324. [10 citations]
- Kara, A. B., A. J. Wallcraft, C. N. Barron, E. J. Metzger, H. E. Hurlburt and **M. A. Bourassa**, 2008: Accuracy of 10 m Wind Speeds from Satellites and NWP Products Near Land–Sea Boundaries. *J. Geophys. Res.*, **113**, C04009, doi:10.1029/2007JC004324. [14 citations]
- Perrie, W., W. Zhang, **M. A. Bourassa**, H. Shen, and P. Vachon, 2008: Impact of satellite winds on marine wind simulations. *Weather and Forecasting*, **23**, 290-303. [3 citations]
- Weissman, D. E., and **M. A. Bourassa**, 2008: Measurements of the Effect of Rain-induced Sea Surface Roughness on the Satellite Scatterometer Radar Cross Section. *IEEE Trans. Geosci. Remote Sens.*, **46**, 2882-2894. [16 citations]
- Bourassa, M. A.**, R. N. Maue, S. R. Smith, P. J. Hughes, and J. Rolph, 2007: Global winds. State of the Climate in 2006. A. Arguez, H. J. Diamond, F. Fetterer, A. Horvitz, and J. M. Levy, Eds., *Bull. Amer. Meteor. Soc.*, **88**, S25-S27. [citations not tracked for subsections]
- Gierach, M. M., **M. A. Bourassa**, P. Cunningham, P. Reasor, and J. J. O'Brien, 2007: Vorticity-Based Detection of Tropical Cyclogenesis. *J. Appl. Meteor. Clim.*, **46**, 1214–1229. [8 citations]
- Kara, A. B., J. Metzger, **M. A. Bourassa**, 2007: Ocean Current and Wave Effects on Wind Stress Drag Coefficient and Fluxes over the Global Ocean. *Geophys. Res. Letts.*, **34**, L01604–01607, doi:10.1029/2006GL027849. [12 citations]
- Bourassa, M. A.**, S. R. Smith, P. Hughes, and J. Rolph, 2006: “Atlantic monthly air–sea fluxes and the 2005 hurricanes”, State of the Climate in 2005. K. A. Shein, A. M. Waple, H. J. Diamond, And J. M. Levy eds., *Bull. Amer. Meteor. Soc.*, **87**, 535 p. [citations not tracked for subsections]
- Morey, S. L., **M. A. Bourassa**, D. S. Dukhovskoy, and J. J. O’Brien, 2006: Modeling studies of the upper ocean response to a tropical storm. *Ocean Dynamics*, 13pp., DOI: 10.1007/s10236-006-0085-y. [16 citations]
- Morey, S. L., S. Baig, **M. A. Bourassa**, D. S. Dukhovskoy, and J. J. O’Brien, 2006: Remote forcing contribution to storm-induced sea level rise during Hurricane Dennis. *Geophys. Res. Letts.*, **33**, L19603–19607, doi:10.1029/2006GL027021. [25 citations]
- Arguez, A., **M. A. Bourassa**, and J. J. O’Brien, 2005: Detection of the MJO signal from QuikSCAT. *J. Atmos. Oceanic Technol.*, **22**, 1885–1894. [5 citations]
- Bourassa, M. A.**, R. Romero, S. R. Smith, and J. J. O’Brien, 2005: A new FSU winds climatology, *J. Clim.*, **18**, 3,692–3,704. [11 citations]
- Kara, B. A., A. J. Wallcraft, H. E. Hurlburt, and **M. A. Bourassa**, 2005: Black Sea mixed layer sensitivity to various wind and thermal forcing products on the climatological time scales. *J. Clim.*, **18**, 5266–5293. [15 citations]
- Morey, S. L., **M. A. Bourassa**, X. Davis, J. J. O’Brien, and J. Zavala-Hidalgo, 2005: Remotely sensed winds for episodic forcing of ocean models. *J. Geophys. Res.*, **110**(C10), C10024, doi:10.1029/2004JC002338. [9 citations]

- Bourassa, M. A.**, 2004: An Improved Seastate Dependency For Surface Stress Derived from In Situ and Remotely Sensed Winds. *Advances in Space Res.*, **33**(7), 1136–1142. [8 citations]
- Curry, J. A., A. Bentamy, **M. A. Bourassa**, D. Bourras, M. Brunke, S. Castro, S. Chou, C. A. Clayson, W. J. Emery, L. Eymard, C. W. Fairall, M. Kubota, B. Lin, W. Perrie, R. R. Reeder, I. A. Renfrew, W. B. Rossow, J. Schulz, S.R Smith, P.J. Webster, G. A. Wick, X. Zeng, 2004: SEAFLUX. *Bull. Amer. Meteor. Soc.*, **85**, 409–424. [58 citations]
- Smith, S. R., J. Servain, D. M. Legler, J. N. Stricherz, **M. A. Bourassa**, and J. J. O'Brien, 2004: In situ based pseudo-wind stress products for the tropical oceans. *Bull. Amer. Meteor. Soc.*, **85**, 979–994. [8 citations]
- Bourassa, M. A.**, David M. Legler, and James J. O'Brien, 2003: Scatterometry Data Sets: High Quality Winds Over Water. *Advances in the Applications of Marine Climatology - The Dynamic Part of the WMO Guide to the Applications of Marine Climatology*. WMO/TD-No.1081 (JCOMM Technical Report No.13, WMO/TD-No. 1081), 159–174. [citations not tracked by WEB OF SCIENCE or Google scholar]
- Bourassa, M. A.**, D. M. Legler, J. J. O'Brien, and S. R. Smith, 2003: SeaWinds Validation with Research Vessels, *J. Geophys. Res.*, **108**, 3019–3035, DOI 10.1029/2001JC001081. [67 citations]
- Hanley, D., **M. Bourassa**, J. J. O'Brien, S. Smith, and E. Spade, 2003: A quantitative evaluation of ENSO indices. *J. Clim.*, **16**, 1249–1258. [64 citations]
- Hilburn, K. A., **M. A. Bourassa**, and J. J. O'Brien, 2003: Scatterometer-derived research-quality surface pressure fields for the Southern Ocean. *J. Geophys. Res.*, **108**, 10.1029/2003JC001772, 3244–3254. [12 citations]
- Lagerloef, G., R. Lukas, F. Bonjean, J. Gunn, G. Mitchum, **M. Bourassa**, and T. Busalacchi, 2003: El Nino Tropical Pacific Ocean surface current and temperature evolution in 2002 and outlook for early 2003. *Geophys. Res. Lett.*, **30**, 10.1029/2003GL017096, 1524–1517. [17 citations]
- Sharp, R. J., **M. A. Bourassa**, and J. J. O'Brien, 2003: Reply to "Comments on 'Early Detection of Tropical Cyclones Using SeaWinds-Derived Vorticity'", *Bull. Amer. Meteor. Soc.*, **85**, 1417. [0 citations]
- Weissman, D. E., **M. A. Bourassa**, J. Tongue, and J. J. O'Brien, 2003: Calibrating the QuikSCAT/SeaWinds Radar for Measuring Rain Over Water. *IEEE Trans. Geosci. Remote Sens.*, **41**, 2814–2820. [14 citations]
- Sharp, R. J., **M. A. Bourassa**, and J. J. O'Brien, 2002: Early detection of tropical cyclones using SeaWinds-derived vorticity. *Bull. Amer. Meteor. Soc.*, **84**, 879–889. [35 citations]
- Weissman, D. E., **M. A. Bourassa**, and J. Tongue, 2002: Effects of rain-rate and wind magnitude on SeaWinds scatterometer wind speed errors. *J. Atmos. Oceanic Technol.*, **19**, 738–746. [59 citations]
- Bourassa, M. A.**, D. G. Vincent, and W. L. Wood, 2001: A sea state parameterization with capillary waves and non-arbitrary wave age. *J. Phys. Oceanogr.*, **31**, 2840–2851. [7 citations]
- Bourassa, M. A.**, 2000: Shear–stress model for the aqueous boundary–layer near the air–sea interface. *J. Geophys. Res.*, **105**, 1167–1176. [3 citations]

- Pegion, P. J., M. A. Bourassa, D. M. Legler, and J. J. O'Brien, 2000: Objectively-derived daily "winds" from satellite scatterometer data. *Mon. Wea. Rev.*, **128**, 3150–3168. [54 citations]
- Zierden, D. F., **M. A. Bourassa**, and J. J. O'Brien, 2000: Cyclone surface pressure fields and frontogenesis from NASA Scatterometer (NSCAT) winds. *J. Geophys. Res.*, **105**, 23967–23981. [19 citations]
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- Bourassa, M. A.**, L. Zamudio, and J. J. O'Brien, 1999: Non-inertial flow in NSCAT observations of Tehuantepec winds. *J. Geophys. Res.*, **104**, 11,311–11,320. [17 citations]
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- Smith, S. R., D. M. Legler, K. Verzone, and **M. A. Bourassa**, 1998: Assessment of NCEP Reanalysis Flux Fields Using High Quality Meteorological Data from WOCE Vessels, *1998 Conference of the World Ocean Circulation Experiment: Ocean Circulation and Climate*, Halifax, Nova Scotia, Canada, 73.
- Bourassa, M. A.**, David M. Legler, and James J. O'Brien, 1997: The use of significant wave height to improve the accuracy of wind derived stress and wave characteristics. *12th Symposium on Boundary Layer and Turbulence*, July, Vancouver, BC, American Meteorological Society, 291–292.
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- Bourassa, M. A.**, 1993: An air/sea flux model including the effects of capillary waves. *20th Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, May, San Antonio, 386–389.
- Bourassa, M. A.**, 1993: An air-sea interaction model for stress, sensible heat, latent heat, and sea state, applicable to the full range of wind speeds. Purdue University, Ph.D. dissertation.
- Zabrzewski, W. P., E. P. Lozowski, W. L. Thomas, **M. Bourassa**, R. Z. Blackmore, K. Szilder, and A. Kobos, 1993: A three-dimensional time-dependent Ship Icing Model. *Proceedings 12th International Conference on Port and Ocean Engineering under Arctic Conditions*, August, Hamburg, J. Schwarz ed., 857–873.
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- Bourassa, M. A.**, 1989: A risk analysis of the accretion of wet snow on transmission lines. University of Alberta, Masters thesis.
- Charlton, R. B., **M. A. Bourassa**, and C. Nguyen, 1989: The public survey of the Edmonton tornado. *Report to the University of Alberta Archives*, approx. 900 pp.
- Lozowski, E. P., K. J. Finstad, and **M. A. Bourassa**, 1989: Extensions to a wet snow model for transmission Lines and Applications to Alberta. *Report to TransAlta Utilities*.

#### INVITED PRESENTATIONS (total of 81)

- Bourassa, M. A.**, 2014: Ocean Observation Panel for Climate: Related Activities. *CLIMAR-IV*, June, Asheville, North Carolina.
- Bourassa, M. A.**, 2014: Potential Water & Winds Mission, *NASA Energy and Water Cycle meeting*, May, Greenbelt, Maryland.

- Bourassa, M. A.** and K. Hill, 2014: Global Climate Observing System Status and Plans, *WCRP Data Advisory Council 3rd Session*, May, Galway, Ireland.
- Bourassa, M. A.**, T. Suga and K. Hill, 2014: OOPC Activities and Interests Overlapping the Atmospheric Observation Panel for Climate. *19th Session of the GCOS/WCRP Atmospheric Observation Panel for Climate*, April, Ispra, Italy.
- Bourassa, M. A.**, 2013: Contributing to JCOMM Work Regarding Surface Vector Wind Products, *Fifth Session of the JCOMM Observations Coordination Group*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, 2013: Development of Science Objectives: US Perspective. *ISRO/JAXA/NASA Meeting on Joint Scatterometer-Radiometer Mission*. November, Ahmedabad, India
- Bourassa, M. A.**, and T. Suga, 2013: Ocean Observations Panel for Climate: Status and next steps. *19th Session of the GCOS/WCRP Atmospheric Observation Panel for Climate*, April, Geneva, Switzerland.
- Bourassa, M. A.**, and T. Suga, 2013: Evaluation of Satellite Systems. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC) joint with the Fifth Session of the JCOMM Observations Coordination Group*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, 2013: Benefits of an active passive combination for estimating vertical fluxes of energy and moisture including rainfall. *ISRO-NASA-JAXA Science Meeting for Future Scatterometer*, March, Tokyo, Japan.
- Bourassa, M. A.**, and H. Holbach, 2013: OSCAT vorticity consistency for use in gridded wind products. *Oceansat-2 International Announcement of Opportunity Science Meeting*, March, Ahmedabad, India.
- Bourassa, M. A.**, and S. T. Gille, 2013: US CLIVAR High-Latitude Surface Flux Working Group. US CLIVAR Summit, July, Annapolis, Maryland.
- Bourassa, M.A.**, 2012: An Intercomparison of Surface Turbulent Heat Fluxes in Warm Core Seclusions. *IEEE Geophysical and Remote Sensing Society 2012*, July, Munich, Germany.
- Bourassa, M. A.**, 2012: High-latitude ocean surface fluxes. *CLIVAR Global Synthesis and Observations Panel Ocean Synthesis and Air-Sea flux evaluation Workshop*, Nov. Woods Hole Oceanographic Institute, Massachusetts.
- Bourassa, M.A.**, 2012: Improving coastal coverage. JAXA-NASA Science Meeting, March, Tsukuba, Japan.
- Bourassa, M.A.**, 2012: Improving monitoring of latent and sensible heat fluxes. JAXA-NASA Science Meeting, March, Tsukuba, Japan.
- Bourassa, M.A.**, 2012: Improving understanding of convection and precipitation. JAXA-NASA Science Meeting, March, Tsukuba, Japan.
- Bourassa, M.A.**, 2012: Improving understanding of the interaction of ocean productivity, CO<sub>2</sub> fluxes, and winds. JAXA-NASA Science Meeting, March, Tsukuba, Japan.
- Bourassa, M.A.**, 2012: Scatterometry. Visiting lecture at the National Institute for Space Research (Instituto Nacional de Pesquisas Espaciais, INPE), February, Sao Jose dos Campos, Brazil.

- Bourassa, M. A.**, 2012: Trends in Ocean Winds and Waves. *Forum on Trends in Extreme Winds, Waves, and Extratropical Storms along the Coasts*. January, Asheville, North Carolina.
- Chang, P., **M. A. Bourassa**, and Z. Jelenak, 2012: Satellite ocean surface vector wind applications overview: research and operations. *IEEE Geophysical and Remote Sensing Society 2012*, July, Munich, Germany.
- Bourassa, M. A.**, 2011: Scientific basis of climate change: role of observational and historical records. *Fellows Forum - Global Climate Change and North Florida: Facts, Perceptions, and Planning*, March, Tallahassee, Florida.
- Bourassa, M. A.**, 2011: Using CFOSAT to determine the role of swell in climate. Chinese-French Oceanographic Satellite (CFOSAT) Meeting. November, Brest, France.
- Bourassa, M. A.**, and H. Holbach, 2011: OSCAT and IR-based early detection of tropical disturbances. *Oceansat-2 International Announcement of Opportunity Science Meeting*, March, Ahmedabad, India.
- Bourassa, M. A.**, and H. Holbach, 2011: Differences between ASCAT, OSCAT and QuikSCAT derived vorticity. *IEEE Geophysical and Remote Sensing Society 2011*, July, Vancouver, Canada.
- Milliff, R., **M. A. Bourassa**, E. Rodriguez, and D. Chelton, 2011: Updating Advice on Selecting Level-2 and Level-3 Surface Vector Wind Datasets from Scatterometers: The Applications Perspective. 2011 International Ocean Vector Winds Science Team Meeting, May, Annapolis, Maryland.
- Bourassa, M. A.**, 2010: Changes in the Climate Record Due to Changes in the Ocean Observing System. *PORSEC 2010*, Oct., Keelung, Taiwan.
- Bourassa, M. A.**, 2010: Issues regarding the construction of satellite and in situ gridded data sets for ocean surface winds and fluxes. *11<sup>th</sup> International Meeting on Statistical Climatology (IMSC)*, July, Edinburgh, Scotland.
- Bourassa, M. A.**, and J. Griffin, 2010: Characterization of errors in various moisture roughness length parameterizations. *American Meteorological Society's 17<sup>th</sup> Conference on Air-Sea Interaction*. Sept., Annapolis, Maryland.
- Bourassa, M. A.**, and E. J. Lindstrom, 2010: Satellites and Satellite Observing in the Future. *US CLIVAR/SeaFlux Workshop*, March, Boulder, Colorado.
- Bourassa, M. A.** and V. Swail, 2010: Trends in Winds and Waves. *Oceans from Space 2010*, April, Venice, Italy.
- Dukhovskoy, D. S., **M. A. Bourassa**, P. J. Hughes, 2010: High-resolution satellite-derived ocean surface winds in the Nordic-Barents seas region: Implications for ocean modeling *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Ferrini, V., S. M. Carbotte, A. R. Maffei, S. P. Miller, S. R. Smith, R. A. Arko, C. L. Chandler, K. Stocks, and **M. A. Bourassa**, 2010: Transforming the academic fleet into an integrated global observing system: the Rolling Deck to Repository (R2R) Program. *Ocean Sciences 2010*, February, Portland, Oregon.

- Bourassa, M. A.**, 2009: Latent heat fluxes in gridded products and in flux models. *NASA Energy and Water Cycle Study (NEWS) Annual Team Meeting*, Dec., Columbia, Maryland.
- Bourassa, M. A.**, 2009: NOAA/NASA climate requirements. *GCOM-W2 Joint Research and Operational User Working Group Meeting*, April, Tokyo, Japan.
- Bourassa, M. A.**, and H. Bonekamp, 2009: International Ocean Vector Winds Science Team (IOVWST). *33<sup>rd</sup> ASCAT Science Advisory Group (SAG) Meeting*, Oct., Darmstadt, Germany.
- Bourassa, M. A.**, and E. Rodriguez, 2009: Research and Development at NASA. *33<sup>rd</sup> ASCAT Science Advisory Group (SAG) Meeting*, Oct., Darmstadt, Germany.
- Clayson, C. A., B. Roberts, P. Robertson, D. Jackson, and **M. Bourassa**, 2009: Current Issues in Deriving Surface Air-Sea Fluxes From Satellites and Models. *Scatterometry and Climate Meeting*, Aug., Arlington, Virginia.
- Morey, S., D. Dukhovskoy, A. Todd, and **M. A. Bourassa**, 2009: Applications and Future Requirements of Satellite Vector Winds for Coastal and Shelf Studies. *Scatterometry and Climate Meeting*, Aug., Arlington, Virginia.
- Bourassa, M. A.**, 2008: Remote Sensing of Ocean Surface Winds: Concepts and Applications, Univ. South Carolina, Feb., Columbia, South Carolina.
- Bourassa, M. A.**, 2008: Scatterometer Derived Wind Fields for Mid-Latitude Storms. *IGARSS 2008*, July, Boston, Massachusetts.
- Smith, S. R., **Mark A. Bourassa**, Gustavo Goni, Loic Petit de la Villeon, 2008: SAMOS and GOSUD Marine Observation Programs. *PORSEC 2008*, Dec., Guangzhou, China.
- Weissman, D. E., and **M. A. Bourassa**, 2008: The effect of rain on satellite sensor estimates of surface roughness conditions and on the air-sea momentum flux. *IGARSS 2008*, July, Boston, Massachusetts.
- Bourassa, M. A.**, 2007: FSU Wind and Stress Products. *QuikSCAT Ocean Vector Wind and Wind Stress Science Products Meeting*, Aug., Portland, Oregon.
- Bourassa, M. A.**, 2007: Measuring surface turbulent stress from space. *2<sup>nd</sup> Oceanography Student Symposium*. Nov., Tallahassee, Florida.
- Bourassa, M. A.**, 2007: Wind Stress Issues. *QuikSCAT Ocean Vector Wind and Wind Stress Science Products Meeting*, Aug., Portland, Oregon.
- Bourassa, M. A.**, and D. E. Weissman, 2007: Scatterometer Wind and Stress Model Function Applicable to Varying Sea States. *IGARSS 2007*, July, Barcelona, Spain.
- Bourassa, M. A.**, Paul J. Hughes, Jeremy Rolph, and Shawn R. Smith, 2007: Hurricanes and Atlantic Surface Flux Variability. *NOAA Climate Observation Division 5<sup>th</sup> Annual System Review*, June, Silver Springs, Maryland.
- Bourassa, M. A.**, and D. E. Weissman, 2007: A Scatterometer Stress Model Function Applicable to Varying Sea States. *15<sup>th</sup> Conference on Air-Sea Interaction*, August, Portland, Oregon.
- Bourassa, M. A.**, and S. R. Smith, 2007: Improving air-sea flux estimation with a new wave-dependant parameterization and high-quality research vessel observations. *ONR Progress Review – Southeast Region*, May, Tallahassee, Florida.

- Morey, S. L., D. S. Dukhovskoy, and **M. A. Bourassa**, 2007: Connectivity between variability of the Apalachicola river flow and the biophysical oceanic properties of the Northern West Florida shelf. *2<sup>nd</sup> Oceanography Student Symposium*. Nov., Tallahassee, Florida.
- Moroni, D. F., and **M. A. Bourassa**, 2007: A global and regional comparison of air-sea flux parameterizations. Pacific Ocean Distributed Active Archive Center (PO.DAAC), Jet Propulsion Lab., Nov., Pasadena, California.
- Reasor, P., E. Minter, **M. A. Bourassa**, and J. Fieux, 2007: QuikSCAT-Derived Near-Surface Vorticity During Tropical Cyclogenesis, TCSP/NAMMA workshop, May, Baltimore, Maryland.
- Perrie, W., W. Zhang, H. Shen, **M. Bourassa**, P. Vachon, 2007: Blending SAR wind into numerical models. *IGARSS 2007*, July, Barcelona, Spain.
- Perrie, W., W. Zhang, **M. Bourassa**, H. Shen and P. Vachon, 2007: SAR-derived winds from hurricanes: assimilative blending with weather forecast winds. *Proceedings OceanSAR 2006 – Third Workshop on Coastal and Marine Applications of SAR*, Oct., St. John's, NL, Canada.
- Weissman, D. E., and **M. A. Bourassa**, 2007: Measurements of the effect of rain-induced sea surface roughness on the satellite scatterometer radar cross section. *OCEANS'07*, June, Aberdeen, Scotland.
- Weissman, D. E., **M. A. Bourassa**, S. Hristova-Veleva, and P. Callahan, 2007: Measurements of the effect of rain-induced sea surface roughness on the satellite scatterometer radar cross section. *IGARSS 2007*, July, Barcelona, Spain.
- Bourassa, M. A.**, and P. J. Hughes, 2006: Sensitivity of surface turbulent fluxes to observational errors. *1<sup>st</sup> Joint GOSUD/SAMOS Workshop*, May, Boulder, Colorado.
- Bourassa, M. A.**, Paul J. Hughes, Jeremy Rolph, and Shawn R. Smith, 2006: Tropical cyclone activity and North Atlantic decadal variability of ocean surface fluxes. *NOAA Climate Observation Program 4<sup>th</sup> Annual System Review*, May, Silver Springs, Maryland.
- Bourassa, M. A.**, M. M. Hite, P. Cunningham, P. Reasor, and James. J. O'Brien, 2006: Objective Detection of Atlantic Tropical Disturbances. *IGARSS2006*, Aug., Denver, Colorado.
- Bourassa, M. A.**, 2006: The Influences of Water Waves On Surface Turbulent Fluxes and the Remote Sensing of Wind and Stress. Naval Research Laboratory Seminar, Dec., Stennis, Mississippi.
- Morey, S. L. **M. A. Bourassa**, D. S. Dukhovskoy, and J. J. O'Brien, 2006: Satellite scatterometer-derived air-sea fluxes for numerical modeling of the upper ocean response to tropical cyclones. *14<sup>th</sup> Conference on Interactions of the Sea and Atmosphere*, Jan., Atlanta, Georgia.
- Bourassa, M. A.**, R. Maue, S. L. Morey, and J.J. O'Brien, 2005: Applications of Gridded Ocean Vector Winds Products. *Satellite Measurements of Ocean Vector Winds: Present Capabilities and Future Trends*, Feb., Miami, Florida.
- O'Brien, J. J., **M. A. Bourassa**, and S. R. Smith, 2005: Climate variability in ocean surface turbulent fluxes, Annual Report: The State of the Ocean and the Ocean Observing System for Climate, *NOAA Office of Climate Observation*, May, Silver Spring, Maryland.



- Bourassa, M. A.**, and S. R. Smith, 2004: Applications for Fine Resolution Marine Observations. *2<sup>nd</sup> High Resolution Marine Meteorology Workshop*, April, Silver Springs, Maryland.
- Weissman, D. E., and **M. A. Bourassa**, 2004: Correcting The ADEOS-II/SeaWinds Radar Cross-section To Remove The Effects Of Rain. *NOAA/NESDIS series on Collaborative Partners Transferring Research to Operations*, Jan., Camp Springs, Maryland.
- Weissman, D. E., **M. A. Bourassa**, and Stephen L. Durden, 2004: Corrections to the SeaWinds scatterometer wind vectors by removing the effects of rain from the NRCS, as measured by TRMM and AMSR. *IEEE IGARSS 2004*, July, Fairbanks, Alaska.
- Bourassa, M. A.**, 2003: Surface Observations in The Southern Ocean, Variability, and the Consequences on Fluxes. *US CLIVAR Southern Ocean working group workshop*, Nov., Tallahassee, Florida.
- Bourassa, M. A.**, and D. E. Weissman, 2003: The Development and application of a Sea Surface Stress model function for the QuikSCAT and ADEOS-II SeaWinds Scatterometers. *IEEE IGARSS 2003*, July, Toulouse, France.
- Bourassa, M. A.**, and J. J. O'Brien, 2003: Fine resolution satellite-based winds for episodic events. *Oceans 2003 Marine Technology and Ocean Science Conference*, Sept., San Diego, California.
- O'Brien, J. J., and **M. A. Bourassa**, 2003: The Best Winds for Ocean Models? *12<sup>th</sup> Conference on Interactions of the Sea and Atmosphere*, Feb., Long Beach, California.
- Smith, S. R., **M. A. Bourassa**, and J. J. O'Brien, 2003: Marine Meteorology Quality Control at the Florida State University. First Workshop on the Quality Assurance of Real-Time Ocean Data (QARTOD), NDBC, Dec., Stennis, Mississippi.
- Weissman, D. E., **M. A. Bourassa**, and S. Durden, 2003: Calibrating the QuikSCAT/SeaWinds radar for measuring rainrate over the oceans and improving wind vector estimates. *NASA GSFC Seminar*, May, Huntsville, Alabama.
- Weissman, D. E., **M. A. Bourassa**, and Stephen L. Durden, 2003: Satellite measurements of backscatter from rain-induced roughness on the sea surface using QuikSCAT and TRMM. *MTS/IEEE OCEANS2003*, Sept., San Diego, California.
- Zavala\_Hidalgo, **M. A. Bourassa**, S. L. Morey, J. J. O'Brien, and P. Yu, 2003: A new temporal interpolation method for high-frequency vector wind fields. *MTS/IEEE OCEANS2003*, Sept., San Diego, California.
- Bourassa, M. A.**, 2002: Flux Modeling and Remote Sensing Applied to Air-Sea Interactions. Meteorology Department, Florida State University, Florida, Jan. 22.
- Bourassa, M. A.**, 2002: Flux Modeling and Remote Sensing Applied to Air-Sea Interactions. COSPAR 2002, Houston, Texas, Oct. 15.
- Bourassa, M. A.**, and J. J. O'Brien, 2001: COAPS Wind and Flux Products. *Global Ocean Data Assimilation Experiment (GODAE) International Workshop on GODAE with Focus on the Pacific*, International Pacific Research Center, University of Hawaii, July 25.
- Bourassa, M. A.**, 1999: Satellite Observations Applied to Air-Sea Interactions. Meteorology Department, Florida State University, April 6.

- Bourassa, M. A.**, 1999: The Future of Marine Forecasting and Weather Products. Sail and Power Squadron, Capital City Country Club, Oct. 21.
- Bourassa, M. A.**, 1996: Mechanisms Coupling Winds, Waves, and Currents. Meteorology Department, Florida State University, January 18.
- Bourassa, M. A.**, 1995: The Influences of Air-Sea Interaction on ENSO and Climate Fluctuations. Institute of Geophysics, Meteorology and Space physics, University of Alberta, December 21.
- Bourassa, M. A.**, 1994: ENSO: A Large-Scale Air-Sea Interaction. College of Marine Studies, University of Delaware, November 29.

#### **OTHER PRESENTATIONS** (total of 361)

- Ahern, K., R. E. Hart and **M. A. Bourassa**, 2014: A high resolution analysis of polar low types: Structural and dynamical comparisons to tropical cyclones. *31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology*, April, San Diego, California.
- Ali, M. M., **M. Bourassa**, D. Long, and J. Elya, 2014: New Applications of Scatterometry. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Bourassa, M. A.**, and P. Hughes, 2014: Surface Curl and Ekman Upwelling Modification by Wind Response to SSTs. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Bourassa, M. A.**, and J. Steffen, 2014: Surface Flux Modification by Wind Response to SSTs. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Bourassa, M. A.**, P. J. Hughes, and J. Steffen, 2014: Small Scale Variability in SSTs And Winds Causes A Structural Error In Surface Fluxes. *CLIMAR-IV*, June, Ashville, North Carolina.
- Bourassa, M. A.**, S. Daneshgar-Asl, M. Clark, Y. Zheng, and P. J. Hughes, 2014: Effects of oceanographic, wind and wave forcing on surface oil. *WAMOST Mid-Term Meeting*. Jan., Mobile, Alabama.
- Bourassa, M. A.**, Y. Zheng, and P. J. Hughes, 2014: Influences of Sea Surface Temperature Gradients and Surface Roughness Changes on the Motion of Surface Oil: A Simple Idealized Study. *31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology*, April, San Diego, California.
- Bourassa, M.**, D. Chelton, R. Gaston, D. G. Long, N. Maximenko, E. Rodriguez, F. Wentz, and S.-P.Xie, 2014: Progress Towards the Ku/Ka-band Scatterometer Missions. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Dukhovskoy, D. and **M. Bourassa**, 2014: Uncertainty in Ocean Surface Winds over the Nordic Seas. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Glazer, R. H., **M. A. Bourassa**, and R. Hart, 2014: The Influence of Small Scale SST Gradients on Tropical Cyclone Development. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.

- Glazer, R. H., R. E. Hart and **M. A. Bourassa**, 2014: The Effects of SST Gradients on Tropical Convective Systems and Implications for Tropical Cyclogenesis. *American Meteorological Society Annual General Meeting*, January, Atlanta, Georgia.
- Glazer, R. H., R. E. Hart and **M. A. Bourassa**, 2014: The Effects of SST Gradients on Tropical Convective Systems and Implications for Tropical Cyclogenesis. *31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology*, April, San Diego, California.
- Holbach, H. M., E. Uhlhorn, and **M. A. Bourassa**, 2014: Wave and Wind Direction Effects on SFMR Brightness Temperatures. *31<sup>st</sup> Conference on Hurricanes and Tropical Meteorology*, April, San Diego, California.
- Holbach, H. M., E. Uhlhorn, and **M. A. Bourassa**, 2014: Wave and Wind Direction Effects on SFMR Brightness Temperatures. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Paget, A. and **M. Bourassa**, 2014: The influence of non-wind based parameters on estimating the active and total whitecap coverage globally. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Smith, S. R., **M. A. Bourassa**, and N. Lopez, 2014: SAMOS Surface Fluxes. European Geophysical Union Meeting. April, Vienna, Austria.
- Smith, S. R., **M. A. Bourassa**, and N. Lopez, 2014: Surface Fluxes from SAMOS. *CLIMAR-IV*. June, Asheville, North Carolina.
- Steffen, J., and **M. Bourassa**, 2014: Winds over Oil: A comparison of data from satellite, buoys, and gridded products. *AGU Ocean Sciences Meeting*, Feb., Honolulu, Hawaii.
- Weih, R. and **M. A. Bourassa**, 2014: Coupled surface winds and ocean diurnal variability using WRF. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Zheng, Y., Renhe Zhang and **M. Bourassa**, 2014: Impact of East Asian Winter and Australian Summer Monsoons on the Enhanced Surface Westerlies over the Western Tropical Pacific Ocean Preceding the El Nino Onset. *2014 International Ocean Vector Winds Science Team Meeting*, June, Brest, France.
- Ali, M. M., G. S. Bhat, D. G. Long, **M. A. Bourassa**, J. Mandalou, and S. Bharadwaj, 2013: Estimation of Ocean Surface Wind-stress from Scatterometers. Oceansat-2 International Announcement of Opportunity Science Meeting, March, Ahmedabad, India.
- Bourassa, M. A.**, 2013: Surface fluxes. *Workshop on Developing Science Objectives for Satellite Mission*. Oct., Boulder, Colorado.
- Bourassa, M. A.**, and S. T. Gille, 2013: US CLIVAR High-Latitude Surface Flux Working Group. US CLIVAR Summit, July, Annapolis, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: Introduction. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: Projects/activities to progress, champions, OOPC Future membership, invited experts to engage. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.

- Bourassa, M. A.**, and T. Suga, 2013: Developing The OOPC Work Plan: Timing, Activities To Pursue, Connections To Make, and Proposed for years 2015 to 2018. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: Developing The OOPC Work Plan. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: Implementation of Work Plan. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: Implementation of Work Plan: System Evaluation. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: The OOPC Work Plan and Approach: Timing and Connections. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, and T. Suga, 2013: The OOPC Work Plan and Approach: Quantitative Approaches. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Bourassa, M. A.**, P. J. Hughes, and D. F. Moroni, 2013: A satellite surface wind product benefiting from boundary-layer physics. *2013 International Ocean Vector Winds Science Team Meeting*. May, Kailua-Kona, Hawaii.
- Bourassa, M. A.**, P. J. Hughes, and D. F. Moroni, 2013: The uncertainty of ocean surface wind climate data records from cross-calibrated data sources and implications on suitability. *2013 EUMETSAT Meteorological Satellite Conference & 19th American Meteorological Society Satellite Meteorology, Oceanography, and Climatology Conference*. Sept., Vienna, Austria.
- Bourassa, M. A.**, J. Steffen, and P. J. Hughes, 2013: Resolving coupling of surface winds and SST modifies surface turbulent fluxes and reduces spurious trends. *SeaFlux workshop*. Sept., Vienna, Austria.
- Bourassa, M. A.**, J. Steffen, and P. J. Hughes, 2013: The Effects of Sea Surface Temperature Gradients on Surface Turbulent Heat Fluxes. *2013 EUMETSAT Meteorological Satellite Conference & 19th American Meteorological Society Satellite Meteorology, Oceanography, and Climatology Conference*. Sept., Vienna, Austria.
- Bourassa, M. A.**, E. Rodriguez, D. Chelton, D. Long, F. Wentz, and S.-P. Xie, 2013: Brief Overview of mission and meeting objectives. *Workshop on Developing Science Objectives for Satellite Mission*. Oct., Boulder, Colorado.
- Clark, M., and **M. Bourassa**, 2013: Quantitative Investigation of Stokes Drift as a Surface Transport Mechanism for Oil: Progress and Future. *Deep-C All Hands Meeting*, Sept. Tallahassee, Florida.
- Dukhovskoy, D., and **M. A. Bourassa**, 2013: Sensitivity of Ocean Processes in the Nordic Seas to Surface Winds Inferred from the 1/12° Arctic Ocean HYCOM-CICE. *2013 International Ocean Vector Winds Science Team Meeting*. May, Kailua-Kona, Hawaii.
- Hill, K., **M. Bourassa**, and T. Suga, 2013: Taking a systems approach to observing system design and assessment. *GODAE Ocean View Meeting*, Nov. Washington, D.C.

- Holbach, H., and **M. A. Bourassa**, 2013: The Effects of Gap Wind Induced Vorticity, Monsoon Trough, the ITCZ, and ENSO on Tropical Cyclogenesis. 4<sup>th</sup> International Summit on Hurricanes and Climate Change, June, Kos, Greece.
- Holbach, H., and **M. A. Bourassa**, 2013: Platform and Across Swath Comparison of Vorticity Spectra from QuikSCAT, ASCAT, and OSCAT Scatterometers. *IGARSS2013, July, Melbourne, Australia.*
- Holbach, H., and **M. A. Bourassa**, 2013: Platform and Across Swath Comparison of Vorticity Spectra from QuikSCAT, ASCAT, and OSCAT Scatterometers. *2013 International Ocean Vector Winds Science Team Meeting.* May, Kailua-Kona, Hawaii.
- Holbach, H., and **M. A. Bourassa**, 2013: Platform and Across Swath Comparison of Vorticity Spectra from QuikSCAT, ASCAT, and OSCAT Scatterometers. *2013 EUMETSAT Meteorological Satellite Conference & 19th American Meteorological Society Satellite Meteorology, Oceanography, and Climatology Conference.* Sept., Vienna, Austria.
- Moroni, D. F., **M. A. Bourassa**; P. J. Hughes, 2013: A New Perspective on Uncertainty in the Cross-Calibrated Wind Vector Climate Data Record. *2013 International Ocean Vector Winds Science Team Meeting.* May, Kailua-Kona, Hawaii.
- Moroni, D. F., **M. A. Bourassa**; P. J. Hughes, 2013: Assessment of ocean surface wind vector climate data records from cross-calibrated satellite data sources. *Special Symposium on the Joint Center for Satellite Data Assimilation*, Jan., Austin, Texas.
- Paget, A., and **M. A. Bourassa**, 2013: Estimating the active and total whtiecap coverage globally using satellite-derived winds. *2013 International Ocean Vector Winds Science Team Meeting.* May, Kailua-Kona, Hawaii.
- Persechino, A., T. Shropshire, **M. A. Bourassa**, D. Dukhovskoy, S. L. Morey, 2013: Using Satellite Chlorophyll-a concentration to validate salinity fields in NCOM & HYCOM around the Mississippi River mouth during the oil spill event of 2010. *Deep-C All Hands Meeting*, September, Tallahassee, Florida.
- Steffen, J., and **M. Bourassa**, 2013: Winds over Oil: A comparison of data from satellite, buoys, and gridded products. *Deep-C All Hands Meeting*, Sept., Tallahassee, Florida.
- Steffen, J., **M. A. Bourassa**, and P. J. Hughes, 2013: The Effects of Sea Surface Temperature Gradients on Surface Turbulent Heat Fluxes. *2013 International Ocean Vector Winds Science Team Meeting.* May, Kailua-Kona, Hawaii.
- Steffen, J., **M. A. Bourassa**, and P. J. Hughes, 2013: The Effects of Sea Surface Temperature Gradients on Surface Turbulent Heat Fluxes. *2013 American Geophysical Union Fall Meeting.* December, San Francisco, California.
- Suga, T., and **M. A. Bourassa**, 2013: OOPC terms of reference, including discussion on defining role and key connections. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Suga, T., and **M. A. Bourassa**, 2013: Developing the work plan: key activities to progress in the next two years. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.

- Suga, T., and **M. A. Bourassa**, 2013: Work plan continued: connecting to EOV requirements. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Suga, T., and **M. A. Bourassa**, 2013: Implementation of work plan continued: funding requirements, OOPC Secretariat activities and priorities. *The Sixteenth Session of the Ocean Observation Panel for Climate (OOPC)*, September, Silver Spring, Maryland.
- Weihs, R., and **M. A. Bourassa**, 2013: Evaluation of modeled diurnally varying sea surface temperatures and the influence of surface winds. *2013 International Ocean Vector Winds Science Team Meeting*. May, Kailua-Kona, Hawaii.
- Weihs, R., **M. Bourassa**, 2013: Florida-focused climate change lesson demonstrations from the ASK Florida global and regional climate change professional development workshops. *American Geophysical Union Fall Meeting*, December San Francisco, California.
- Weihs, R., **M. Bourassa**, 2013: Development and evaluation of an empirical diurnal sea surface temperature model. *American Geophysical Union Fall Meeting*, December, San Francisco, California.
- Zheng, Y., **M.A. Bourassa**, and P. Hughes, 2013: Impacts of Sea Surface Temperature Gradients and Surface Roughness Changes on the Motion of Surface Oil: A Simple Idealized Study. *2013 International Ocean Vector Winds Science Team Meeting*. May, Kailua-Kona, Hawaii.
- Zheng, Y., **M.A. Bourassa**, and P. Hughes, 2013: Influence of sea surface temperature gradient and roughness changes due to a slick on the motion of surface oil: A simple idealized study. *Deep-C "All Hands" Meeting*, March, Tallahassee, Florida.
- Bourassa, M. A.**, 2012: Changes in the Observing System Contributing To Perceived Changes in Large Scale Circulation. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Bourassa, M. A.**, 2012: Parameterization of Surface Fluxes: Changes Due to the DWH Surface Slick and Preliminary Examples of Impacts. *Deep-C "All Hands" Meeting*, August, Tallahassee, Florida.
- Bourassa, M. A.**, and H. Holbach, 2012: Resolving Vorticity in New Wind Products: Advantages of Finer Resolution and Improved Retrievals through Rain. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Bourassa, M. A.**, and J. P. Scott, 2012: An Intercomparison of Surface Turbulent Heat Fluxes in Warm Core Seclusions. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Bourassa, M. A.**, and D. E. Weissman, 2012: Effect of rain on ASCAT observations of the sea surface using simultaneous 3-D NEXRAD rain measurements. *AMS 30<sup>th</sup> Conferences on Hurricanes and Tropical Meteorology*, April, Ponte Verdra, Florida.
- Bourassa, M. A.**, P. J. Hughes and S. R. Smith, 2012: Recent air/sea flux activities at FSU. *NOAA Climate Observations Division 8<sup>th</sup> Annual PI Meeting*, June, Silver Spring, Maryland.
- Bourassa, M.**, E. Rodríguez, A. Chau, D. Chelton, A. Fore, P. Gaube, M. Gierach, T. Lee, J. McWilliams, L. O'Neill, D. Perkovic, B. Stiles, S. Hristova Veleva, D. Waliser, B. Williams, S.-P. Xie, S. Yeuh, 2012: Summary of Science Thoughts for Possible Future NASA Missions, Part I. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.

- Carbotte, S., S. Miller, A. Maffei, S. Smith, C. Chandler, V. Ferrini, R. Arko, K. Stocks, S. O'Hara, **M. Bourassa**, D. Clark, A. Sweeney, J. Morton, 2012: Rolling Deck to Repository (R2R): Envisioning the US Academic Fleet as an Integrated Ocean Observing System. *International Time-series Methods Workshop*, November, Bermuda.
- Dukhovskoy, D., and **M. Bourassa**, 2012: Modeled sensitivity of the upper-ocean properties in the Nordic Seas to wind forcing. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Dukhovskoy, D. S., and **M. A. Bourassa**, P. J. Hughes, R. N. Maue, 2012: Inter-annual Variability of Storm Frequency and Intensity in the North Atlantic and its Impact on the Ocean Processes: Insight from the 1/25° HYCOM-CICE Simulation. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Heath, N., **M. Bourassa**, and D. Dukhovskoy, 2011: Determining the Effects of Stokes Drift on the Movement of Oil in the Gulf of Mexico. *Deep-C "All Hands" Meeting*, August, Tallahassee, Florida.
- Holbach, H., and **M. A. Bourassa**, 2012: The effects of gap wind induced vorticity on tropical cyclogenesis. *AMS 30<sup>th</sup> Conferences on Hurricanes and Tropical Meteorology*, April, Ponte Verdra, Florida.
- Holbach, H., and **M. A. Bourassa**, 2012: The Effects of Gap Wind Induced Vorticity, the ITCZ, and Monsoon Trough on Tropical Cyclogenesis. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Holbach, H., and **M. A. Bourassa**, 2012: The Effects of Gap Wind Induced Vorticity, Monsoon Trough, and the ITCZ on Tropical Cyclogenesis. *2012 IEEE International Geoscience and Remote Sensing Symposium*, July, Munich, Germany.
- Hughes, P. J., and **M. A. Bourassa**, 2012: A Model-Based Examination of SST-Related Changes in Surface Winds Due to Baroclinicity and Boundary-Layer Stability. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Hughes, P. J. and **M. A. Bourassa**, 2012: Influence of Sea Surface Temperature on Near-Surface Winds: Baroclinic vs. Stability Impacts. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Moroni, D. F., **M. A. Bourassa**; P. J. Hughes, 2012: Uncertainty Analysis of High Resolution Ocean Surface Wind Vector Earth System Data Records, Phase 1: Time Series Homogeneity with Derivative Fields. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Nedbor-Gross, R., D. Dukhovskoy, E. Chassignet, and **M. Bourassa**, 2012: Interannual Variability of the Gulf of Mexico Loop Current. *Deep-C "All Hands" Meeting*, August, Tallahassee, Florida.
- Paget, A. C., and **M. A. Bourassa**, 2012: Effects of sea surface temperature on whitecap coverage estimates using satellite derived data. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Rodríguez, E, **M. Bourassa**, A. Chau, D. Chelton, A. Fore, P. Gaube, M. Gierach, T. Lee, J. McWilliams, L. O'Neill, D. Perkovic, B. Stiles, S. Veleva, D. Waliser, B. Williams, S.-P. Xie, S. Yeuh, 2012: Summary of Science Thoughts for Possible Future NASA Missions, Part 2. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.

- Rudzin, J. E., S. L. Morey, **M. A. Bourassa**, and S. R. Smith, 2012: The influence of atmospheric cold air outbreaks on the upper ocean thermal variability of the Florida Straits. *11<sup>th</sup> Annual AMS Student Conference and Career Fair*, Jan., New Orleans, Mississippi.
- Rudzin, J. E., S. L. Morey, **M. A. Bourassa**, and S. R. Smith, 2012: The influence of atmospheric cold air outbreaks on the upper ocean thermal variability of the Florida Straits. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Smith, S. R., **M. A. Bourassa**, J. Rolph, K. Briggs, D. L. Jackson, 2012: SAMOS – supporting marine atmosphere-ocean research. *NOAA Climate Observations Division 8<sup>th</sup> Annual PI Meeting*, June, Silver Spring, Maryland.
- Smith, S. R., **M. A. Bourassa**, J. Rolph, K. Briggs, D. Jackson, 2012: SAMOS – supporting marine atmosphere-ocean research. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Smith, S. R. Smith, N. Lopez, **M. A. Bourassa**, J. J. Rolph, and K. Briggs, 2012: Research Vessel Meteorological and Oceanographic Systems Support Model and Satellite Validation Studies. *Fall American Geophysical Union Meeting*, Dec. San Francisco, California.
- Weih, R. and **M. A. Bourassa**, 2012: A Comparison of Modeled Diurnally Varying Sea Surface Temperatures to Satellite Data. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Wilson, S., L. Machado, **M. Bourassa**, M. Higgins, P. Chang and Z. Jelenak, 2012: Marine Training Workshop on the Use of Satellite Wind and Wave Products in South American Waters. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Zheng, Y., **M. A. Bourassa**, and P. Hughes, 2012: How temperature and roughness changes due to a slick influence the motion of a surface oil slick. *Ocean Sciences 2012*, Feb., Salt Lake City, Utah.
- Zheng, Y., **M.A. Bourassa**, and P. Hughes, 2012: Influence of sea surface temperature gradient and roughness changes due to a slick on the motion of surface oil: A simple idealized study. *2012 International Ocean Vector Winds Science Team Meeting*, June, Utrecht, Netherlands.
- Zheng, Y., **M.A. Bourassa**, and P. Hughes, 2012: Influence of sea surface temperature gradient and roughness changes due to a slick on the motion of surface oil: A simple idealized study. *Deep-C "All Hands" Meeting*, August, Tallahassee, Florida.
- Bourassa, M. A.**, 2011, Lessons learned during QuikSCAT validation, Committee for Earth Orbiting Satellites Workshop, October, Beijing, China.
- Bourassa, M. A.**, 2011: Review of equivalent neutral winds and stress. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland.
- Bourassa, M. A.**, and H. Holbach, 2011: Differences between ASCAT, OSCAT and QuikSCAT derived vorticity: implications on spatial resolution. *MTS/IEEE OCEANS'2011*, Sept., Kona, Hawaii.
- Carbotte, S., S. Miller, A. Maffei, S. Smith, R. Arko, V. Ferrini, K. Stocks, C. Chandler, **M. Bourassa**, D. Clark, S. O'Hara, A. Sweeney, and J. Morton, 2011: Rolling Deck to Repository (R2R): Creating an national pipeline for underway ship data. *Environmental Information Management 2011 Conference*, Santa Barbara, CA, 28-29 September 2011.



- Dukhovskoy, D., and **M. Bourassa**, 2011: Comparison of ocean surface wind products in the perspective of ocean modeling of the Nordic Sea. *MTS/IEEE OCEANS'2011*, Sept., Kona, Hawaii.
- Dukhovskoy, D., **M. Bourassa** and **P. Hughes**, 2011: High-resolution satellite-derived ocean surface winds in the North Atlantic. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland.
- Heath, N., M. Bourassa**, and D. Dukhovskoy, 2011: Determining the Effects of Stokes Drift on the Movement of Oil in the Gulf of Mexico. *Northern Gulf Institute Annual Conference 2011*, May, Mobile, Alabama.
- Holbach, H.**, and **M. A. Bourassa**, 2011: Differences between ASCAT, OSCAT and QuikSCAT derived vorticity. *EUMETSAT/ESA Scatterometer Science Conference*, April, Darmstadt, Germany.
- Holbach, H.**, and **M. A. Bourassa**, 2011: Comparison of Scatterometer Derived Vorticity. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland.
- Holbach, H.**, and **M. A. Bourassa**, 2011: The effects of gap wind induced vorticity on tropical cyclogenesis. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Hughes, P.**, and **M. A. Bourassa**, 2011: Influence of sea level pressure and SST data on objectively derived surface vector wind fields. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland. *Third International Workshop on Advances in the Use of Historical Marine Climate Data (MARCDAT-III)*, May, Frascati, Italy.
- Hughes, P. J.** and **M. A. Bourassa**, 2011: Influence of Sea Surface Temperature on Near-Surface Winds: Baroclinic vs. Stability Impacts. NASA Sea Surface Temperature Science Team Meeting, November, Miami, Florida.
- May, J., M. A. Bourassa**, and S. R. Smith, 2011: Quantifying variance due to temporal and spatial difference between ship and satellite winds. *Third International Workshop on Advances in the Use of Historical Marine Climate Data (MARCDAT-III)*, May, Frascati, Italy.
- May, J.**, and **M. A. Bourassa**, 2011: QuikSCAT calibration and assessment of impacts of spatial and temporal variability in surface winds. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland.
- Montee, G., J. J. Rolph, M. A. Bourassa**, and S R. Smith, 2011: Raw data processing in SAMOS 2.0. *Northern Gulf Institute Annual Conference 2011*, May, Mobile, Alabama.
- Scott, J. P.**, and **M. A. Bourassa**, 2011: Remotely sensed surface turbulent fluxes and validation with in situ observations. *Third International Workshop on Advances in the Use of Historical Marine Climate Data (MARCDAT-III)*, May, Frascati, Italy.

- Smith, S.R., J. Rolph, K. Briggs, and **M. A. Bourassa**, 2011: Research Vessel Observations: A modern data record for marine climatology. Poster, *Third International Workshop on Advances in the Use of Historical Marine Climate Data (MARCDAT-III)*, Frascati, Italy, 2-6 May 2011.
- Weissman, D. E., and **M. A. Bourassa**, 2011: Effect of rain on ASCAT Observations of the sea surface RADAR cross section using simultaneous 3-D NEXRAD rain measurements. *2011 International Ocean Vector Winds Science Team Meeting*, May, Annapolis, Maryland.
- Weissman, D. E., and **M. A. Bourassa**, 2011: Effect of rain on ASCAT observations of the sea surface using simultaneous 3-D NEXRAD rain measurements. *IEEE Geophysical and Remote Sensing Society 2011*, July, Vancouver, Canada.
- Bourassa, M. A.**, 2010: Advantages and consequences of satellite wind instruments responding to stress rather than wind. *Oceans from Space 2010*, April, Venice, Italy.
- Bourassa, M. A.**, 2010: Changes in the climate record due to changes in the ocean observing system. *IEEE IGARSS 2010*, July, Honolulu, Hawaii.
- Bourassa, M. A.**, 2010: Impacts of high resolution SST fields on objective analysis of wind fields. *2010 NASA Sea Surface Temperature Science Team Meeting*, November, Seattle, Washington.
- Bourassa, M. A.**, 2010: Remote sensing of surface stress – Connections to currents, waves, and oil. *SECOM 2010*, May, Tallahassee, Florida.
- Bourassa, M. A.**, 2010: Stress Related Improvements in Surface Turbulent Heat Fluxes – A DFS Application. *International Ocean Vector Winds Science Team 2010 Meeting*, May, Barcelona, Spain.
- Bourassa, M. A.**, 2010: Wave-Related Changes in Surface Turbulent Heat Fluxes. *Ocean Sciences 2010*, February, Portland, Oregon.
- Bourassa, M. A.**, and E. Rodriguez, 2010: Proposed Mission for Climate Quality Scatterometer Intercalibration and Measurement of Ocean Surface. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Bourassa, M. A.**, P. S. Chang, and E. Rodriguez, 2010: A satellite winds mission for climate. *NOAA Climate Observations Division 8<sup>th</sup> Annual Review*, Sept., Silver Spring, Maryland.
- Bourassa, M. A.** and **J. Griffin**, 2010: Characterization of Errors In Various Moisture Roughness Length Parameterizations. *US CLIVAR/SeaFlux Workshop*, March, Boulder, Colorado.
- Bourassa, M. A.**, and **P. J. Hughes**, 2010: Spectral Analysis of Gridded Wind Products. *International Ocean Vector Winds Science Team 2010 Meeting*, May, Barcelona, Spain.
- Bourassa, M. A.**, **P. J. Hughes**, J. Rolph, **J. P. Scott**, and S. R. Smith, 2010: Recent air/sea flux activities at FSU. *NOAA Climate Observations Division 8<sup>th</sup> Annual Review*, Sept., Silver Spring, Maryland.
- Bourassa, M. A.**, and **R. N. Mau**, 2010: Ocean vector winds and hurricane forecasts. *14th session of the GCOS-GOOS-WCRP Ocean Observations Panel for Climate (OOPC-14)*, Jan., Miami, Florida.

- Bourassa, M. A.**, and E. Rodriguez, 2010: Proposed Mission for Climate Quality Scatterometer Intercalibration and Measurement of Ocean Surface CO<sub>2</sub> Fluxes. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Chassignet, E., S. L. Morey, D. S. Dukhovskoy, and **M. A. Bourassa**, 2010: Use of a Coastal Ocean - Atmospheric Modeling and Observing System to Examine the Variability of Transport across the Northern West Florida Shelf. *Ocean Sciences 2010*, February, Portland, Oregon.
- Collier, C., S. Smith, M. Powell, S. Cocke and **M. Bourassa**, 2010: Offshore Wind Power Potential around Florida, Florida Energy Systems Consortium, September, Orlando, Florida
- Collier, C., S. Smith, M. Powell, S. Cocke and **M. Bourassa**, 2010: Offshore Wind Potential around Florida, Florida Climate Institute Kickoff, Nov., Tallahassee, Florida
- DiNapoli, S., **M. A. Bourassa**, and M. D. Powell, 2010: Determining the Error Characteristics of H\*Wind. *American Meteorological Society 29<sup>th</sup> Conference on Hurricanes and Tropical Meteorology*, May, Tucson, Arizona.
- DiNapoli, S., **M. A. Bourassa**, and M. D. Powell, 2010: Determining the Error Characteristics of H\*Wind. *International Ocean Vector Winds Science Team Meeting*, May, Barcelona, Spain.
- Dukhovskoy, D., **M. A. Bourassa**, and P. J. Hughes, 2010: High-Resolution Satellite-Derived Ocean Surface Winds in the Nordic-Barents Seas Region in 2007-2008: Implications for Ocean Modeling. International Science Conference Marine research in polar areas of the Earth in IPY 2007/08, April, St. Petersburg, Russia.
- Bourassa, M. A.**, and E. Rodriguez, 2010: Proposed Mission for Climate Quality Scatterometer Intercalibration and Measurement of Ocean Surface CO<sub>2</sub> Fluxes. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- May, J. C., and **M. A. Bourassa**, 2010: Quantifying Equivalent Neutral Wind Speed Variance due to Temporal and Spatial Difference Between SeaWinds and In Situ Data. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Miller, S. P., S. M. Carbotte, K. Stocks, V. Ferrini, R. A. Arko, C. L. Chandler, A. R. Maffei, S. R. Smith, **M. A. Bourassa**, P. D. Clark, A. D. Sweeney, S. H. O'hara, J. J. Morton, 2010: Rolling Deck to Repository (R2R): Next Steps in Ocean Exploration for Data Dissemination and Discovery. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Morey, S. L., **M. A. Bourassa**, and A. Todd, 2010: Interannual Variability of Synoptic Scale Winds over the Northern West Florida Shelf from SeaWinds and ASCAT. *International Ocean Vector Winds Science Team 2010 Meeting*, May, Barcelona, Spain.
- Powell, M., S. Smith, **M. Bourassa**, S. Cocke, and C. Collier, 2010: Offshore Wind Energy: Prospects for Florida and the Gulf of Mexico, *Florida State University Meteorology Seminar*, Sept., Tallahassee, Florida
- Rauch, J. C., **M. A. Bourassa**, and Shawn R. Smith, 2010: Assessing Representation Error of In Situ Wind Related Variables for Comparison to Satellite Data. *International Ocean Vector Winds Science Team Meeting*, May, Barcelona, Spain.
- Rusher, P., E. Chassignet, W. Dewar, K. Speer, A. Clarke, G. Weatherly, M. Huettel, D. Thistle, T. Dittmar, J. Chanton, **M. Bourassa**, C. Clayson, F. Coleman, C. Koenig, S. Morey, and D.

- Dukhovsky, 2010: Update – Integrated Research for the Northeast Gulf of Mexico Big Bend Region at FSU. *Northern Gulf Institute Annual Conference 2010*, May, Mobile, Alabama.
- Scott, J. P., M. A. Bourassa, and C. A. Clayson, 2010: Diurnal Variation in Latent and Sensible Heat Fluxes using MERRA. *90<sup>th</sup> Annual General Meeting of the American Meteorological Society*, January, Atlanta, Georgia.
- Scott, J. P., M. A. Bourassa, and C. A. Clayson, 2010: Error analysis of satellite-derived SeaFlux heat and moisture fluxes with in situ derived fluxes. *American Meteorological Society, 17<sup>th</sup> Conference on Satellite Meteorology and 17<sup>th</sup> Conference on Air-Sea Interaction*, October, Annapolis, Maryland.
- Scott, J. P., M. A. Bourassa, and C. A. Clayson, 2010: An Intercomparison of Numerically-Modeled Flux Data and Satellite-Derived SeaFlux Data for Warm- Core Seclusions. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Smith, S. R., R. A. Arko, **M. A. Bourassa**, J. Hu, M. McDonald, J. Rettig, and J. Rolph, 2010: The Shipboard Automated Meteorological and Oceanographic System (SAMOS) Initiative Data Management System. *International Marine Data and Information System (IMDIS) 2010*. Paris, France.
- Smith, S. R., **M. A. Bourassa**, J. Rolph, K. Briggs, 2010: High-quality surface meteorological and oceanographic observations from research vessels to support flux applications. *US CLIVAR/SeaFlux Workshop*, March, Boulder, Colorado.
- Smith, S. R., J. Rolph, K. Briggs, **M. A. Bourassa**, and J. May, 2010: Activities of the Shipboard Automated Meteorological and Oceanographic System Initiative Data Assembly Center. *NOAA Climate Observations Division 8<sup>th</sup> Annual Review*, Sept., Silver Spring, Maryland.
- Weih, R. and **M. A. Bourassa**, 2010: Resolving the diurnal cycle in satellite derived sea surface temperatures and its significance on surface heat fluxes. *90<sup>th</sup> Annual General Meeting of the American Meteorological Society*, January, Atlanta, Georgia.
- Weih, R. and **M. A. Bourassa**, 2010: Resolving the diurnal cycle in satellite derived sea surface temperatures and its significance on surface heat fluxes. *US CLIVAR/SeaFlux Workshop*, March, Boulder, Colorado.
- Weih, R. and **M. A. Bourassa**, 2010: Resolving the diurnal cycle in satellite derived sea surface temperatures and its significance on surface heat fluxes. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Weih, R. R., S. Smith, **M. Bourassa**, J. Carlson, 2010: Resources for Middle School Science Teacher Professional Development in Global Climate Change Education. *The A-Train Symposium*, Oct., New Orleans, Louisiana.
- Weih, R. R., **M. A. Bourassa**, S. R. Smith, K. Fearon, and J. V. Carlson, 2010: Resources for Middle School Science Teacher Professional Development in Global Climate Change Education. *Fall American Geophysical Union Meeting*, Dec., San Francisco, California.
- Weissman, D. E., H. Winterbottom, and **M. A. Bourassa**, 2010: High resolution investigations of the dependence of surface roughness on tropical cyclone rain-rates and surface wind speed using radar cross-sections and scatterometer winds. *Ocean Sciences 2010*, February, Portland, Oregon.

- Weissman, D. E., H. Winterbottom, and **M. A. Bourassa**, 2010: Studies of the influence of rainfall upon scatterometer estimates for sea surface stress: applications to boundary layer parameterization and drag coefficient models within tropical cyclone environments. *International Ocean Vector Winds Science Team 2010 Meeting*, May, Barcelona, Spain.
- Weissman, D. E., H. Winterbottom, and **M. A. Bourassa**, 2010: Studies of the influence of rainfall upon scatterometer estimates for sea surface stress: applications to boundary layer parameterization and drag coefficient models within tropical cyclone environments. *IEEE IGARSS 2010*, July, Honolulu, Hawaii.
- Weissman, D. E., H. Winterbottom, and **M. A. Bourassa**, 2010: The influence of rainfall upon scatterometer estimates for sea surface stress: applications to boundary layer parameterization and drag coefficient models within tropical cyclone environments. *MTS/IEEE OCEANS 2010*, Sept., Seattle, Oregon.
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- Bourassa, M. A.**, and J. J. O'Brien, 2002: Improved Rain Flag and (potentially) Ambiguity Selection. Ocean Vector Winds Algorithm Development Workshop. May, Pasadena, California.
- Bourassa, M. A.**, and J. J. O'Brien, 2002: Satellite and In-situ Based Gridded Winds and Fluxes. *En Route to GODAE*, June, Biarritz, France.
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**Bourassa, M. A.**, Steven L. Morey, J. J. O'Brien, and J. Zavala, 2001: Tropical cyclone forcing in the Gulf of Mexico. *11<sup>th</sup> Conference on Satellite Meteorology and Oceanography*, Oct., Madison, Wisconsin.

**Bourassa, M. A.** and J. J. O'Brien, 2001: COAPS wind and flux products. *SEAFLUX Workshop*, May, San Diego, California.

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- O'Brien, J. J., P. J. Pegion, **M. A. Bourassa**, and D. M. Legler, 1999: Objectively Derived 'Wind' Fields Based on NASA Scatterometer (NSCAT) Data. *ADEOS-2 Science Meeting*, December, Kyoto, Japan.

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- Bourassa, M. A.**, 1998: Interactions between atmospheric stability and mean wave characteristics. *Ninth Conference on Interaction of the Sea and Atmosphere*, January, Phoenix, Arizona.
- Bourassa, M. A.**, D. M. Legler, J. J. O'Brien, J. N. Stricherz, and J. Whalley, 1998: High temporal and spatial resolution animations of winds observed with the NASA scatterometer, *14th International conference on IIPS*, January, Phoenix, Arizona.
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- Bourassa, M. A.**, D. M. Legler, and J. J. O'Brien, 1997: NSCAT winds validation with research ship observations. *American Geophysical Union 1997 Spring Meeting*, May, Baltimore, Maryland.
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- Bourassa, M. A.**, 1993: An air/sea flux model including the effects of capillary waves. *20th Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, May, San Antonio, Texas.

## Contracts and Grants

### Contracts and Grants Funded (total of 31)

- M. A. Bourassa.** Automated Mapping of Surface Oil Spill: Surface Physics and Remote Sensing Associated with Movement and Identification of a Slick. Funded by the Northern Gulf of Mexico Institute (01/11 – 12/11).
- M. A. Bourassa** and S. R. Smith. Ocean Surface Fluxes. Funded by NOAA/COD (10/02/2011 - 09/30/2012).
- S. R. Smith and **M. A. Bourassa.** Research Vessel (Samos) Data Assembly Center. Funded by NOAA/COD (10/02/2011 - 09/30/2012). \$238,000
- M. A. Bourassa**, S. L. Morey, and D. S. Dukhovskoy. Scatterometer Derived Stress and Ocean Modeling Studies. Funded by the NASA (02/28/2011 – 03/31/2015).
- E. Chassignet and many others. The Deep-C ConsorXum: Deep Sea to Coast Connectivity in the Eastern Gulf of Mexico. Funded by the Northern Gulf of Mexico Institute (10/01/2011 - 08/31/2014).
- R. Hart, J. Collins, Q. Xiao, E. Chassignet, R. Weisberg, **M. Bourassa**, C. Clayson, S. Morey, D. Dukhovskoy, S. Shin. Tackling Florida's growing geophysical threats through collaborative coupled modeling. The State of Florida (01/11 – 01/2013).
- S. Woodruff, S. Worely, S. R. Smith, **M. A. Bourassa**, and E. Freeman. An International Comprehensive Ocean Atmosphere Data Set (ICOADS). Funded by NOAA. (09/01/11 - 04/30/14)
- M. A. Bourassa.** Earth System Data Records Uncertainty: Analysis Uncertainty in the Winds Climate Record. Funded by the NASA (11/01/10 – 10/31/13).
- M. A. Bourassa**, Meredith Field, and Melissa Griffin. Satellites To Go: A Remote Sensing Outreach Kit. Funded by the NASA (04/01/10 – 05/31/13).
- M. A. Bourassa** and S. R. Smith. Global Climate Change Education: Advancing Student Knowledge. Funded by the NOAA (06/01/10 – 05/31/13).
- C. A. Clayson, and **M. A. Bourassa.** The Development of a 20-Year Database of Ocean Properties for Climate Analyses. Funded by the NOAA (06/10 - 05/13).
- M. A. Bourassa**, S. R. Smith, and C. A. Clayson. Improved Fields of Satellite-Derived Ocean Surface Turbulent Fluxes of Energy and Moisture. Funded by the NASA (06/01/09 – 05/31/12).
- S. R. Smith and **M. A. Bourassa.** Rolling Deck to Repository (R2R): Transforming the Academic Fleet. Funded by the NSF (08/31/09 – 08/30/14).
- S. R. Smith and **M. A. Bourassa.** Stewardship of SAMOS data and metadata from UNOLS vessels. Funded by the NSF (05/15/09 – 10/31/10).
- M. A. Bourassa.** OCEANSAT-2 Contributions to Ocean Surface Wind Fields. (10/01/08 – 09/30/11).
- C. A. Clayson and **M. A. Bourassa.** A Multi-Year Data Set of The Diurnal Cycle Of Sea Surface Temperature: Variability And Impact On Surface Fluxes. Funded by the NASA (1/1/07 – 12/31/10).

- M. A. Bourassa.** Dynamics of Cyclones: Graduate Fellowship for Ryan Maue. Funded by the NASA (9/1/06 – 8/31/09).
- M. A. Bourassa,** S. L. Morey, and J. J. O'Brien. ROSES05 Ocean Vector Wind Science Team Renewal. Funded by the NASA (6/27/06 – 6/24/10).
- M. A. Bourassa,** S. R. Smith, and E. Chassignet. RVSMDC and FSU Fluxes Components (part of NOAA Applied Research Center). Funded by the NOAA. (6/1/06 – 5/31/11).
- M. A. Bourassa.** NASA/JPL Science Working Group on SeaWinds-on-ADEOS-2 Follow On Mission. Funded by the NASA (01/05 – 12/05).
- M. A. Bourassa,** P. J. Cunningham, and P. D. Reasor. Tropical Cyclone Genesis in the Pacific Ocean, Funded by the NASA (10/1/05 – 9/30/10).
- M. A. Bourassa.** An Improved Physical Model for the Exchange of Momentum and Energy Through the Air-Sea Interface. Funded by the FSU/FYAP (6/03 – 5/04).
- J. J. O'Brien and **M. A. Bourassa.** Numerical Modeling of Cross-Shelf Exchange Processes in the Gulf of Mexico. Funded by the NASA (09/02 – 08/05).
- M. A. Bourassa,** S. R. Smith, and J. J. O'Brien. U.S. R/V Surface Meteorology Data Assembly Center. Funded by the NOAA (5/15/02 – 4/30/08).
- M. A. Bourassa.** Climate Variability in Ocean Fluxes. Funded by the NSF (5/15/02 – 4/30/08).
- J. J. O'Brien, **M. A. Bourassa,** and S. R. Smith. Climate Variability in Ocean Surface Turbulent Fluxes. Funded by the NOAA (12/01 – 11/06).
- J. J. O'Brien and **M. A. Bourassa.** Scatterometer-Derived Operational Winds and Surface Pressures. Funded by the NOPP (05/01 – 04/04).
- J. J. O'Brien and **M. A. Bourassa.** Quality-Evaluated Meteorological Data from Research Vessels. Funded by the NOAA (05/01 – 04/06).
- J. J. O'Brien and **M. A. Bourassa.** Analysis, Modeling and Science for NSCAT, SeaWinds, ADEOS Vector Winds. Funded by the NASA via Oregon State University (02/00 – 01/04). \$1,329,500.
- D. E. Weissman, J. J. O'Brien, and **M. A. Bourassa.** NEXRAD Precipitation Measurements Combined With In-Situ Data To Improve the Accuracy of QuikSCAT Scatterometer Wind Estimates. Funded by COMET (4/99-7/00).
- J. J. O'Brien and **M. A. Bourassa.** SeaWinds Science Team Acceleration. Funded by the NASA via Oregon State University (02/99 – 01/00).

## **SERVICE**

### **Florida State University**

#### **Department of Earth, Ocean, and Atmospheric Science**

Committee Member, Web Committee (2010 – 2011)  
Graduate Admissions Committee (Meteorology) 2010  
Committee Member, Chi Epsilon Pi (honors) Committee (2010/09 – present)  
Undergraduate Adviser (Meteorology) (2010/09 – 2012/05)  
Committee Member, Awards Committee (2012/01 – present)

#### **Department of Meteorology**

Committee Chairperson, Awards Committee (2008/01 – 2010/09)  
Committee Member, Publicity Committee (2008/01 – 2008/12)  
Committee Chairperson, Chi Epsilon Pi (honors) Committee, (2003/09 – 2006/09)  
Committee Member, Chi Epsilon Pi (honors) Committee (2002/11 – 2010/09)  
Committee Member, Awards Committee (2006/11 – 2010/09)  
Committee Member, Publicity Committee (2006/11 – 2007/11)  
Committee Member, Undergraduate Program Committee (2006/11 – 2007/11)  
Undergraduate Advisor (2007 – 2010/09)  
Committee Member, G3 Committee: evaluating preparation and advising of new graduate students (2005/09 – 2006/08; 2010/09 – 2010/09)  
Committee Member, Graduate Student Admissions Committee (2005/09 – 2006/08)  
Committee Member, Search Committee for the director of COAPS (2005)  
Committee Member, Computer Committee (2002/11 – 2003/09)

#### **Center for Ocean–Atmospheric Prediction Studies**

Committee Chairperson, Academic Committee, (2006/06 – present).  
Committee Member, COAPS Management Committee, (2006/06 – present).

#### **College of Arts and Sciences**

External Member, Statistics Chair Search (2013)

### **The Profession**

#### **Editor for Refereed Journals**

Associate Editor (01/2007 – 01/2010). Journal of Atmospheric and Oceanic Technologies.

#### **Reviewer for Refereed Journals** (121 reviews for 28 journals)

Bulletin of the American Meteorological Society (2 in 2009)  
Journal of Advances in Space Research. (1 review in 2005)  
Journal of Applied Meteorology and Climatology. (1 review in 2006 and 1 in 2007, 1 in 2008, and 2 in 2011)

Journal of Atmospheric and Oceanic Technologies. (1 review in 2002 and 1 in 2004, 2 in 2007, 3 in 2008, 1 in 2010, and 2 in 2011)

Canadian Journal of Remote Sensing. (1 review in 2002)

Journal of Climate. (1 review in 2003, 1 in 2004, 3 in 2005, 1 in 2011)

Climate Dynamics (1 in 2008, and 1 in 2009)

Climate Research. (1 review in 2005)

Journal of Coastal Research. (1 review in 2005)

Continental Shelf Research. (1 review in 2005, and 1 in 2006)

Deep Sea Research, part 1. (1 review in 2006, and 1 in 2007)

Dynamics of the Atmosphere and Ocean ( 1 in 2005, 1 in 2008)

Journal of Environmental Fluid Mechanics. (1 review in 2003, 1 in 2004, and 1 in 2005)

Geophysical Research Letters. (1 review in each of 2002, 2003, 2004, and 2005, 4 in 2006, and 2 in 2012)

Geoscience and Remote Sensing Letters. (1 review in 2005)

Journal of Geophysical Research (Atmospheres). (1 review in 2003, 1 in 2004, 1 in 2005, 2 in 2008, and 3 in 2011)

Journal of Geophysical Research (Oceans). (1 review in 2005, 2 in 2006, 1 in 2007, 1 in 2008, 2 in 2009, 4 in 2009, 1 in 2010, and 5 in 2011)

Journal of Great Lakes Research. (1 review in 2003)

Indian Journal of Marine Studies. (1 review in 2003)

International Journal of Climate (1 in 2009)

International Journal or Remote Sensing (2 in 2011)

Journal of Physical Oceanography. (1 review in 2005)

Langmuir. (1 review in 2003)

Mathematical and Computer Modeling. (1 review in 2003)

Monthly Weather Review. (1 review in 2004, 1 in 2006, 1 in 2009, and 1 in 2010)

Ocean Dynamics (3 in 2010)

Remote Sensing of Environment. (1 review in each of 2002, 2003, 2004, and 2006)

Sensors (3 in 2008)

Transactions of the Geophysical and Remote Sensing Society (2 reviews in 2003, 1 in 2006, 3 in 2007, 3 in 2008, 2 in 2009, 1 in 2010, 8 in 2011, and 3 in 2012)

Weather and Forecasting (1 in 2012)

**Reviewer for Grant Applications** (64 reviews for 6 agencies)

Center for Global Policy. (1 review in 2005)

Louisiana Board of Regents. (1 review in 2007)

NASA. (1 review in 2002, 12 in 2003, 2 in 2004, 1 in 2005, 1 in 2008, 1 in 2009, 25 in 2010, 9 in 2011)

NSF. (2 reviews in 2002, 1 in 2003, 5 in 2004, 2 in each of 2005 and 2006, 1 in 2008, 1 in 2012)

SEAGRANT. ( 1 review in each of 2002, 2005, and 2006)

NOAA (1 review in each of 2002, 2005, 2006, and 2007)

**Service to Professional Associations**

Committee member, Committee on Interaction of the Sea and Atmosphere, American Meteorological Society (2003 – 2006)

Co-Chair, PORSEC panel on satellite product intercalibration (2008 – 2011)

## **The Community**

### **Service to the Community**

Co-chair, JCOMM cross-cutting Task Team on Satellite Data requirements (2013 – present)

Co-chair, Ocean Observation Panel for Climate (OOPC) (2013 – present)

NASA Senior Review (2011) Panel for Earth Observing Satellites

NASA Review Panel member for NASA Energy and Water Cycle Study proposals (2011)

Invited Participant, 2011 Revisions of the Global Climate Observing System (GCOS) Satellite Supplement

International Ocean Vector Winds Science Team Leader (2010 – present)

NASA Review Panel member for Ocean Vector Wind Science Team proposals (2010)

Invited Participant, *14th GCOS-GOOS-WCRP Ocean Observations Panel for Climate*

GCOM-W2 Joint Research and Operational User Working Group (2009 – present)

ASCAT Science Advising Group (2008 – present)

NASA PO.DAAC User Working Group (2008 – present)

Team Leader for NASA Ocean Vector Wind Science Team (2008 – present)

Co-Chair, USCLIVAR High Latitude Surface Fluxes Working Group (2008 – present)

Executive Committee Member (2005 – present) Shipboard Automated Meteorological and Oceanographic Systems (SAMOS) Working Group

Committee Member (2005 – present) SEAFLUX Working Group

Member (2005 – present) NOAA Expert Team on the State of the Ocean

Invited Participant (2005 June 06) NASA's Scatterometer High Wind Model Function Meeting

Invited Participant (2005 Feb. 8–10) Ocean Vector Winds Strategy Workshop, hosted by NASA and NOAA

Committee Member (2004) Next Vector Winds Mission Science Working Group

Invited member of review panel for a NASA program (2003)

Co-chair (1998 – 2005) QuikSCAT surface truth

#### Meeting Convener:

Workshop on Decadal Review Mission (2013)

2009 NASA Ocean Vector Wind Science Team Meeting

2008 NASA Ocean Vector Wind Science Team Meeting

#### Meeting Co-Convener

Ocean Observing Panel for Climate (OOPC) 16 (2013)

2013 International Ocean Vector Wind Science Team Meeting

2012 International Ocean Vector Wind Science Team Meeting

2011 International Ocean Vector Wind Science Team Meeting

2010 International Ocean Vector Wind Science Team Meeting

Joint SeaFlux and USCLIVAR High Latitude Working Group Meeting (2010)

Scatterometry and Climate Meeting (2009)

#### Session Co-Convener:

2012 Fall AGU Meeting

IGARSS2012



IGARSS2011  
2010 Fall AGU Meeting  
Ocean Sciences 2010  
Ocean Sciences 2008

Meeting Organizing Committee

CLIVAR-GSOP Workshop on Ocean Synthesis and Air-Sea Flux Evaluation 2012

Session Chair:

2014: 2013 International Ocean Vector Winds Science Team Meeting  
2013: 2013 International Ocean Vector Winds Science Team Meeting, IGARSS 2013, EUMETSAT (2 sessions)  
2012: 2012 International Ocean Vector Winds Science Team Meeting (2 sessions), IGARSS2012, CLIVAR-GSOP Workshop on Ocean Synthesis and Air-Sea Flux Evaluation, Fall AGU Meeting (2 sessions)  
2011: EUMETSAT/ESA Scatterometer Science Conference, 2011 International Ocean Vector Winds Science Team Meeting (2 sessions), IGARSS2011  
2010: Ocean Sciences 2010 (2 sessions), International OVWST meeting (2 sessions), IGARSS2010, 17<sup>th</sup> Conference on Air-Sea Interaction, Fall AGU (2 sessions)  
2009: 16<sup>th</sup> Conference on Air-Sea Interaction, NASA OVWST meeting, IGARSS2009, Scatterometry and Climate Meeting  
2008: Ocean Sciences, IGARSS2008, 2<sup>nd</sup> Joint GOSUD/SAMOS Workshop, NASA OVWST meeting  
2007: IGARSS2007, 15<sup>th</sup> Conference on Air-Sea Interaction  
2006: IGARSS2006, 14<sup>th</sup> Conference on Interactions of the Sea and Atmosphere, 3<sup>rd</sup> SEAFLUX Workshop, Joint GOSUD/SAMOS Workshop, AGU Fall Meeting  
2005: NASA OVWST meeting  
2004: 13<sup>th</sup> Conference on Interactions of the Sea and Atmosphere  
2003: MTS/IEEE OCEANS2003, High Resolution Marine Meteorology Workshop, *ADEOS-II/SeaWinds Calibration/Validation meeting*, NASA OVWST meeting

IGARSS Technical Planning Committee Member (2006, 2007, 2008, and 2012)

**Consultation**

Louisiana Board of Regents

Peer Review of Proposal. (2006/12 – 2007/01).