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Curriculum Vitae

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EDUCATION

Ph.D. in Atmospheric Sciences (Tropical Met.), Purdue Univ.	08/90 – 01/94
M.Sc. in Meteorology, University of Alberta	09/86 – 05/89
B.Sc. (spec) in Physics, University of Alberta	09/81 – 05/85

PROFESSIONAL EXPERIENCE

University of Alberta: Research Assistant	1988 – 1990
Purdue University: Research Asst./Teaching Asst.	1990 – 1993
College of Marine Studies, Univ. of Delaware: Postdoctoral Fellow	1994 – 1995
Center for Ocean-Atmospheric Prediction Studies, Florida State University: Research Associate	1996 – 2002
Department of Meteorology & COAPS Florida State University: Assistant Professor	2002 – 2008
Geophysical Fluid Dynamics Institute (GFDI) Associate Department of Meteorology & COAPS	2004 –
Florida State University: Associate Professor	2008 –

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 –
Co-chair of the (USCLIVAR) High Latitude Surface Fluxes Working Group	2008 –
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
GCOM-W2 Mission Science Working Group	2009 –

PROFESSIONAL MEMBERSHIP

American Geophysical Union
American Meteorological Society
IEEE Geosciences & Remote Sensing Society
Pan Ocean Remote Sensing Conference (PORSEC)

REFEREED PUBLICATIONS

- Bourassa, M. A., and K. McBeth-Ford, 2008: Uncertainty in scatterometer-derived vorticity, *J. Atmos. Oceanic Technol.*, submitted.
- Guimond, S.R. and **M. A. Bourassa**, 2008: A Diagnostic Study of the Effects of Trough Interactions on Tropical Cyclone QPF. *Mon. Wea. Rev.*, submitted.
- 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.
- 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**, C10020, doi:10.1029/2007JC004516, 2008.
- Hughes, P., and **M. A. Bourassa**, J. Rolph, and S. R. Smith, 2008: Tropical Atlantic flux variability. *J. Clim.*, submitted.
- Morey, S. L., D. S. Dukhovskoy, and **M. A. Bourassa**, 2008: Connectivity between variability of the Apalachicola River flow and the biophysical oceanic properties of the northern West Florida Shelf. *Continental Shelf Research*, accepted.
- 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.
- 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.
- 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.
- 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.
- 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, doi:10.1029/2006GL027849.
- 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. *Bull. Amer. Meteor. Soc.*, **87**, 535 pp.
- 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*, DOI: 10.1007/s10236-006-0085-y.
- 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.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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, DOI 10.1029/2001JC001081.
- 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.
- 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.
- 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. Rev. Lett.*, **30**, 10.1029/2003GL017096.
- 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.
- 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.
- 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.

- 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.
- 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.
- Bourassa, M. A.**, 2000: Shear–stress model for the aqueous boundary–layer near the air–sea interface. *J. Geophys. Res.*, **105**, 1167–1176.
- 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.
- 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.
- Bourassa, M. A.**, D. G. Vincent, W. L. Wood, 1999: A flux parameterization including the effects of capillary waves and sea state. *J. Atmos. Sci.*, **56**, 1123–1139.
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- Smith, R. S, **M. A. Bourassa**, and R. J. Sharp, 1999: Establishing more truth in true winds. *J. Atmos. Oceanic Technol.*, **16**, 939–952.
- Verschell, M. A., **M. A. Bourassa**, D. E. Weissman, and J. J. O'Brien, 1999: Model validation of the NASA Scatterometer winds. *J. Geophys. Res.*, **104**, 11359–11374.
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BOOKS AND BOOK CHAPTERS

- Bourassa, M. A.**, 2006, Satellite-based observations of surface turbulent stress during severe weather, *Atmosphere - Ocean Interactions*, Vol. 2., ed., W. Perrie, Wessex Institute of Technology Press, Southampton, UK, 35 – 52 pp.

UNREFEREED PUBLICATIONS

- Bourassa, M. A.**, and S. Gille, 2008: U.S. CLIVAR working groups on high latitude surface fluxes. *U.S. CLIVAR Variations*, **6**, 8 – 11.
- Bourassa, M. A.**, P. J Hughes and S. R. Smith, 2008: Surface Turbulent Flux Product Comparison. *Flux News*, Issue 5, World Meteorological Organization, eds. Bernard Barnier and Sergey Gulev, 22-24.
- 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. XXIX General Assembly of the International Union of Radio Science, *Union of Radio Science International*, 4 pp.
- Bourassa, M. A.**, D. Dukhovskoy, S. L. Morey, and J. J. O'Brien, 2007: Innovations in Modeling Gulf of Mexico Surface Turbulent Fluxes. *Flux News*, Issue 3, World Meteorological Organization, eds. Bernard Barnier and Sergey Gulev, 9.

- Banks, R. F., **M. A. Bourassa**, P. Hughes, J. J. O'Brien, and S. R. Smith, 2006: Variability of surface turbulent fluxes over the Indian Ocean. *14th Conference on Interactions of the Sea and Atmosphere*, American Meteorological Society, CDROM.
- Bourassa, M. A.**, and P. J. Hughes, 2006: Computationally fast and accurate surface turbulent fluxes. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2006 Edition, 4:01-02.
- Hite, M. M., **M. A. Bourassa**, and J. J. O'Brien, 2006: Vorticity-Based Detection of Tropical Cyclogenesis. *14th Conference on Interactions of the Sea and Atmosphere*, American Meteorological Society, CDROM.
- Hite, M. M., **M. A. Bourassa**, and J. J. O'Brien, 2006: Objective detection of Atlantic tropical disturbances. *27th Conference on Hurricanes and Tropical Meteorology*, American Meteorological Society, CDROM.
- Hughes, P.J., **M.A. Bourassa**, J. Rolph, and S.R. Smith, 2006: interdecadal variability of surface heat fluxes over the Atlantic Ocean. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2006 Edition, 2:17-18.
- Morey, S. L., **M. A. Bourassa**, D. S. Dukhovskoy, and J. J. O'Brien, 2006: Modeling the impacts of remote forcing on hurricane storm surge. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2006 Edition, 8:19-20.
- Morey, S. L. M. A. Bourassa, D. Dukhovskoy, and J. J. O'Brien, 2005: Modeling the oceanic response to air-sea fluxes associated with a tropical storm. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2005 Edition, 08:3-4.
- 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, Silver Spring, MD, 20910. USA, 214-219 pp.
- O'Brien, J. J., **M. A. Bourassa**, and S. R. Smith, 2005: U.S. research vessel surface meteorology data assembly center. Annual Report: The State of the Ocean and the Ocean Observing System for Climate, NOAA Office of Climate Observation, Silver Spring, MD, 20910. USA, 221-228 pp.
- Weissman, D. E., G. Apgar, J. S. Tongue, and **M. A. Bourassa**, 2005: Corrections to the SeaWinds scatterometer wind vectors by removing rain effects. *Bul. Amer. Met. Soc.*, **86**, 621-622.
- Bourassa, M. A.**, 2004: A Sea Surface Stress Parameterization Dependent on Directional Seastate. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2004 Edition, 4.07-4.08.
- Morey, S. L., **M. A. Bourassa**, D. Dukhovskoy, J. J. O'Brien, and J. Zavala-Hidalgo, Modeling the ocean response to air-sea fluxes during energetic episodic atmospheric events, *Physics of Estuaries and Coastal Seas*, Extended Abstract, 2004.
- Smith, S. R., R. Romero, **M. A. Bourassa**, 2004: A comparison of FSU2, NCEPR1, and NCEPR2 winds in the tropical Pacific. *Preprints from 20th Conference on Weather Analysis*

and Forecasting/16th Conference on Numerical Weather Prediction, Seattle, WA, Amer. Meteor. Soc., CDROM.

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*, CDROM.

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 Deigo, CA.

Bourassa, M. A., and D. E. Weissman, 2003: A direct surface wind stress algorithm for the SeaWinds scatterometer. *12th Conference on Satellite Meteorology and Oceanography*, Feb., Long Beach, CA.

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. *Proceedings of IEEE IGARSS 2003*, in press.

Davis, S. R., **M. A. Bourassa**, R. Atlas, J. Ardizzone, E. Brin, J. J. O'Brien, and D. F. Zierden, 2003: Near-realtime sea surface pressure Fields from NASA's SeaWinds scatterometer and their impact in NWP. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. H. Ritchie, 2003 Edition, 01:20–21.

Hilburn, K. A., **M. A. Bourassa**, and J. J. O'Brien, 2003: Development of scatterometer-derived research quality surface pressure fields for the southern ocean. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. H. Ritchie, 2003 Edition, 02:11–12.

Hilburn, K. A., **M. A. Bourassa**, and J. J. O'Brien, 2003: Development of Scatterometer-Derived Research-Quality Surface Pressures For the Southern Ocean. *12th Conference on Satellite Meteorology and Oceanography*, Feb., Long Beach, CA.

Morey, S. L., **M. A. Bourassa**, X. Jia, J. J. O'Brien, and J. Zavala-Hidalgo, 2003: Impacts of satellite scatterometer-derived wind forcing on the West Florida Shelf ocean circulation. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. H. Ritchie, 2003 Edition, 08:18–19.

O'Brien, J. J., and **M. A. Bourassa**, 2003: The Best winds for ocean models? *12th Conference on Interactions of the Sea and Atmosphere*, American Meteorological Society, 5 pp.

Sharp, R. J., **M. A. Bourassa**, J. J. O'Brien, K. B. Katsaros, and E. B. Forde, 2003: Early detection of tropical cyclones using SeaWinds-derived vorticity for the 2001 hurricane season. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2003 Edition, 02:23–24.

Sharp, R. J., **M. A. Bourassa**, and J. J. O'Brien, 2003: Tropical cyclogenesis detection in the East Pacific Hurricane Basin. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2003 Edition, 2.21–2.22.

- 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, Stennis, MS, 40–42.
- Smith, S. R., **M. A. Bourassa**, and R. Romero, 2003: Topical Pacific wind comparisons: objective FSU versus NCEP Reanalysis products. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2003 Edition, 2.25–2.26.
- Weissman, D. E., **M. A. Bourassa**, and J. Tongue, 2003: Evaluating the QuikSCAT/SeaWinds Radar for Measuring Rainrate Over the Oceans Using Collocations with NEXRAD and TRMM. *12th Conference on Satellite Meteorology and Oceanography*, Feb., Long Beach, CA.
- 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, CA.
- Zavala-Hidalgo, J., P. Yu, S. L. Morey, **M. A. Bourassa**, and J. J. O'Brien, 2003: A new interpolation method for high frequency forcing fields. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. J. Côté, 2003 Edition, 3.21–3.22.
- Bourassa, M. A.**, and J. J. O'Brien, 2002: Assimilation of scatterometer and in situ winds for regularly gridded products. *6th Symposium on IOS*, Orlando, FL. Amer. Meteor. Soc., 161-165.
- Bourassa, M. A.**, J. J. O'Brien, S. R. Smith, and R. Romero, 2002: A new FSU wind and flux climatology. Abstracts from *WOCE and Beyond*, San Antonio, TX, 162.
- Hilburn, K. A., **M. A. Bourassa**, J. J. O'Brien, 2002: Development of scatterometer-derived research-quality surface pressure fields for the Southern Ocean. *18th Conference on IIPS*, Orlando, FL. Amer. Meteor. Soc., 30-31.
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- Bourassa, M. A.**, 2001: Tehuantepec wind and pressure changes associated with tropical cyclones. *11th Conference on Interactions of the Sea and Atmosphere*, San Diego, CA, Amer. Meteor. Soc., 27-28.
- Bourassa, M. A.** and J. J. O'Brien, 2001: High Temporal and Spatial Resolution Gridded Wind Fields from SeaWinds on QuikSCAT. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. H. Ritchie, Report No. 30, in press.
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- Smith, S. R., **M. A. Bourassa**, D. M. Legler, and J. J. O'Brien, 2001: Value of quality evaluated, high-temporal resolution marine meteorology observations. *Symposium on Climate Variations, the Oceans, and Societal Impacts*, Albuquerque, NM, Amer. Meteor. Soc., 148–153.
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- Subrahmanyam, B., D. M. Legler, Bernard Barnier, J. J. O'Brien, A. P. de Miranda, and **M. A. Bourassa**, 2001: Sensitivity of an ocean general circulation model to changes in the surface momentum forcing. *CAS/JSC Working Group on Numerical Experimentation, Research Activities in Atmospheric and Oceanic Modeling*, World Meteorological Organization, ed. H. Ritchie, Report No. 28, in press.
- Verzone, K. V., **M. A. Bourassa**, S. D. Cocke, T. LaRow, and J. J. O'Brien, 2001: Double ensemble predictions of precipitation in the southeastern U.S. for extreme ENSO events. *Symposium on Climate Variations, the Oceans, and Societal Impacts*, Albuquerque, NM, Amer. Meteor. Soc., 167–168.
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- O'Brien, J. J., and **M. A. Bourassa**, 2000: Scatterometry at COAPS. *Proceedings of the Ocean Vector Wind Science Team Meeting.*, Arcadia, CA. [Available from Scatterometer Projects Office, Jet Propulsion Lab., Pasadena, CA 91109].
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- Morey, S., **M. A. Bourassa**, and D. Dukhovskoy, 2009: Role of nearshore winds in connecting variability of river discharge with offshore bio-optical properties. *16th Conference on Interactions of the Sea and Atmosphere*, Jan., Phoenix, Arizona.
- Weissman, D. E., and **M. A. Bourassa**, 2009: The combined effect of surface rain and wind on scatterometer observations of surface roughness. *16th Conference on Interactions of the Sea and Atmosphere*, Jan., Phoenix, Arizona.
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- Moroni, D. F., and **M. A. Bourassa**, 2007: A preliminary comparison of turbulent flux parameterizations over the Southern Ocean. *ONR Progress Review – Southeast Region*, May, Tallahassee, FL.
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Past and Current Funding

Source of Support	Project Title	Period Covered	Support (months)
NSF	Stewardship of SAMOS data and metadata from UNOLS vessels PI: S.R. Smith Co-I: M.A. Bourassa	TBD	0.5/yr
NASA	Improved Fields of Satellite-Derived Ocean Surface Turbulent Fluxes of Energy and Moisture PI: M.A. Bourassa Co-I: S.R. Smith	TBD Co-I: C.A. Clayson	1/yr
ISRO	OCEANSAT-2 Contributions to Ocean Surface Wind Fields PI: M.A. Bourassa	10/01/08–09/30/11	none
NASA	A Multi-Year Data Set Of The Diurnal Cycle Of Sea Surface Temperature: Variability And Impact On Surface Fluxes PI: C. A. Clayson Co-PI: M. A. Bourassa	1/1/07-12/31/10	1/yr
NASA	Coupled Atmosphere-Ocean Dynamics Of Southern Hemisphere (graduate fellowship for Ryan Maue) PI: M. A. Bourassa Graduate Student: R. N. Maue	8/2006 – 8/2009	none
NASA	Ocean Vector Wind Science Team Renewal PI: M. A. Bourassa Co-I: J. J. O'Brien	9/1/06-8/31/10 Co-I: S. L. Morey	1/yr
NOAA/ OCO	Climate Variab. in Ocean Surface Turbulent Fluxes PI: M. A. Bourassa Co-PI: S. R. Smith	6/1/06 - 5/31/11 Co-PI: Eric Chassignet	1/yr
NOAA/ OCO	Rsch. Vessel Surface Met. Data Assembly Ctr. Co-PI: M. A. Bourassa Co-PI: S. R. Smith	6/1/06 - 5/31/11 Co-PI: Eric Chassignet	1/yr
NASA/ TCSP	Early Stages of Tropical Cyclone Genesis in the Pacific Ocean PI: M. A. Bourassa Co-I: P. Cunningham	10/05-9/09 Co-I: P. Reasor	1/yr
NASA/ OSU	Ocean Vector Wind Science Team Renewal PI: J. J. O'Brien Co-PI: Bourassa	1/05-12/05	1
NOAA/ OCO	U.S. R/V Surface Meteorology Data Assembly Center PI: J. J. O'Brien Co-PI: M. A. Bourassa	05/02-04/08 Co-PI Shawn Smith	1/yr
OSU	NASA/JPL Science Working Group on SeaWinds-on-ADEOS-2 Follow On Mission PI: M. A. Bourassa	01/05-12/05	1

FSU FYAP	An Improved Physical Model for the Exchange of Momentum and Energy Through the Air-Sea Interface PI: Bourassa	6/03-5/04	~2
NSF	Climate Variability in Ocean Fluxes PI: Bourassa Co-PI: S. R. Smith	5/02-4/08	1/yr
NASA	Numerical Modeling of Cross-Shelf Exchange Processes in the Gulf of Mexico PI: J. J. O'Brien Co-PI: Bourassa	9/02-8/05	1/yr
NOAA OCO	Climate Variability in Ocean Surface Turbulent Fluxes PI: J. J. O'Brien Co-PI: M. A. Bourassa Co-PI: S. R. Smith	12/01-11/06	1/yr
NOPP	Scatterometer-Derived Operational Winds and Surface Pressures PI: J. J. O'Brien Co-PI: Bourassa	5/01-4/04	2/yr
NOAA OCO	Quality-Evaluated Meteorological Data from Research Vessels PI: J. J. O'Brien Co-PI: Bourassa	5/01-4/06	1/yr
OSU/ NASA	Analysis, Modeling and Science for NSCAT, SeaWinds, ADEOS Vector Winds PI: J. J. O'Brien Co-PI: Bourassa	2/00-1/04	3/yr
COMET	NEXRAD Precipitation Measurements Combined With In-Situ Data To Improve the Accuracy of QuikSCAT Scatterometer Wind Estimates PI: David E. Weissman PI: J. J. O'Brien	4/99-7/00 Co-PI: Bourassa	NA
OSU	SeaWinds Science Team Acceleration PI: J. J. O'Brien Co-PI: Bourassa	2/99-1/00	2/yr
NASA	Anomalous Heat Budgets in the Pacific PI: J. J. O'Brien Co-PI: Legler	5/98-4/01	2/yr
JPL	JASON and TOPEX/POSEIDON Altimetry PI: J. J. O'Brien Co-PI: Legler	7/98-6/01	variable
Scripps/ NOAA	Flux Variability of the Pacific Ocean PI: J. J. O'Brien Co-PI: Legler	1/98-12/01	2/yr
JPL	NSCAT Science Team PI: J. J. O'Brien Co-PI: Legler	2/96-8/99	variable

Teaching Experience

Activity	Location	Topic	Time
Course Instructor	Aero Aviation Cntr	Aviation Meteorology	3 sessions, 1988
Teaching Assistant	Purdue University	Intro. Meteorology	Fall 1989
Teaching Assistant	Purdue University	Boundary-Layer and Data Analysis	Fall 1990-92
Subst. Lecturer	Florida State Univ.	Air-Sea Interaction & Dynamics	Occasional
Guest Lecturer	Florida State Univ.	Remote Sensing (scatterometry)	Fall 2001
Course Instructor	Florida State Univ.	Physics of the Air-Sea Boundary	Spring '03, '04, Fall '05, '07
Course Instructor	Florida State Univ.	General Meteorology	Fall '03, '04, '06
Course Instructor	Florida State Univ.	Physics of the Air-Sea Boundary	Spr. '03, '05, '07
Course Instructor	Florida State Univ.	Radiative Transfer & Rem. Sens.	Spring '05, '08
Course Instructor	Florida State Univ.	Computational Statistics	Spring '06, '07
Dir. Individ. Study	Florida State Univ.	Stat. Anal. of Rem. Sensed Obs.	Summer 2003
DIS	Florida State Univ.	Spatial/temp. Variab. In Surf. Wind	Summer 2004
DIS	Florida State Univ.	Variational Methods	Spring 2005
DIS	Florida State Univ.	Surface Flux Model	Spring 2005
DIS	Florida State Univ.	Variational Methods	Summer 2005
DIS	Florida State Univ.	Air/Sea Interaction	Fall 2005
DIS	Florida State Univ.	Variational Methods	Fall 2005
DIS	Florida State Univ.	Surface Flux Modeling	Fall 2005
DIS	Florida State Univ.	Data Fusion	Spring 2006
DIS	Florida State Univ.	Error Analysis	Spring 2006
DIS	Florida State Univ.	Cyclone Variability	Spring 2006
DIS	Florida State Univ.	Scatterometry Physics	Summer 2006
DIS	Florida State Univ.	Boundary-Layer Stability Climo.	Summer 2006
DIS	Florida State Univ.	Sea Ice Cycles	Summer 2006
DIS	Florida State Univ.	Inter-Ocean Linkages	Summer 2006
DIS	Florida State Univ.	Satellite Climatology	Summer 2006
DIS	Florida State Univ.	Marine Weather Prediction I	Summer 2006
DIS	Florida State Univ.	Marine Weather Prediction II	Summer 2006
DIS	Florida State Univ.	Invest. of ENSO Physics	Summer 2006
DIS	Florida State Univ.	Tropical Cloud Systems	Fall 2006
DIS	Florida State Univ.	Atlantic Flux Variability	Fall 2006
DIS	Florida State Univ.	Flux Product Intercomparison	Fall 2006
DIS	Florida State Univ.	Ekman Layer Model	Fall 2006
DIS	Florida State Univ.	Applied Statistics	Spring 2007
DIS	Florida State Univ.	Meteorological Computations	Spring 2007
DIS	Florida State Univ.	Fine Resolution Retrievals	Spring 2007
DIS	Florida State Univ.	Ekman and Surface Layer	Spring 2007
DIS	Florida State Univ.	Applied Statistics II	Summer 2007
DIS	Florida State Univ.	Surface Forcing Applications	Fall 2007
DIS	Florida State Univ.	Air-Sea Interactions	Fall 2007
DIS	Florida State Univ.	Freeze Analysis	Fall 2007
DIS	Florida State Univ.	Hurricanes & Satellites	Fall 2007
DIS	Florida State Univ.	Uncertainty Analysis	Spring 2008
DIS	Florida State Univ.	Applied Statistics	Spring 2008
DIS	Florida State Univ.	Error Characterization	Summer 2008

DIS Florida State Univ. SST Observations
DIS Florida State Univ. FORTRAN

Fall 2008
Fall 2008

Graduate Student Committees

Student	Degree	Year of Graduation	Committee Activity	Institute	Topic
Khara Lombardi	M.S.	Fall 2004	chair	FSU	Diurnal Variability in Sfc. Winds
Robert Banks	M.S.	Fall 2005	chair	FSU	Indian Ocean Surface Fluxes
Paul Hughes	M.S.	Spring 2006	chair	FSU	Atlantic surface flux climatology
Jeffrey Taylor	M.S.	Fall 2006	chair	FSU	Quality of SeaWinds pressures
Kristen Briggs	M.S.	Fall 2006	chair	FSU	Synthetic ENSO Variability
Steve Giumond	M.S.	Spring 2007	chair	FSU	QPF for Extra-Tropical Transition
Michelle Stewart	M.S.	Sum. 2007	chair	FSU	Tropical transition of Storms
David Moroni	M.S.	Sum. 2008	chair	FSU	Flux Parameterizations
Kelly McBeth	M.S.	Fall 2008	chair	FSU	Tropical Disturbance Evolution
Steve Guimond	Ph.D.	ongoing	co-chair	FSU	Hot Towers in Hurricanes
Josh Griffin	M.S.	ongoing	chair	FSU	Roughness Length Modeling
Paul Hughes	Ph.D.	ongoing	chair	FSU	Assimilation of Satellite Obs
Ryan Maue	Ph.D.	ongoing	chair	FSU	Southern Ocn. Cyclone Evolution
Barrett Olafson	M.S.	ongoing	chair	FSU	Diurnal SST
Rachel Weihs	M.S.	ongoing	chair	FSU	Diurnal SST
Marcus Williams	M.S.	ongoing	co-chair	FSU	Multi-decadal Variability
David Zierden	M.S.	Fall 1998	member	FSU	Scatterometer Surface Pressures
Kathy Verzone	M.S.	Fall 1999	member	FSU	ENSO Precipitation Variability
Phillip Pegion	M.S.	Fall 1999	member	FSU	Gridding Satellite Data
Ryan Sharp	M.S.	Fall 1999	member	FSU	Air Flow Around Islands
Shannon Davis	M.S.	Fall 2002	member	FSU	Scatterometer Pressure & NWP
Kyle Hilburn	M.S.	Fall 2002	member	FSU	S. Hemisphere Pressure Fields
Brian Jones	M.S.	Sum. 2004	member	FSU	InterTropical Convergence Zone
Pete Bogenschultz	M.S.	Fall 2004	member	FSU	North Eastern Frontal Passages
Justin Brolley	M.S.	Fall 2004	member	FSU	ENSO-related Drought Forecast
Ryan Maue	M.S.	Sum., 2004	member	FSU	Extratropical Transition
Derrick Weitlich	M.S.	Fall 2004	member	FSU	Diurnal SST Cycle
Andrew Kimball	M.S.	Sum. 2005	member	FSU	QSCAT & RO Data Assimilation
Sujata Dash	Ph.D.	Fall 2005	out. mem.	IIT	Coastal Ocean Circulation
Michelle Hite	M.S.	Fall 2005	member	FSU	Tropical cyclogenesis
Yoo-Jeong Noh	Ph.D.	Fall 2005	member	FSU	Remote sensing of snowfall
Michael Hanggi	M.S.	Spring 2006	member	FSU	Sea Surface Temperature
Elizabeth Minter	M.S.	Fall 2006	member	FSU	Tropical Cyclogenesis
Henry Winterbottom	M.S.	Fall 2006	member	FSU	Steering Winds for Hurricanes
Christine Hamman	M.S.	Sum. 2007	member	FSU	Diurnal Coastal Boundary Layer
Will Sexton	M.S.	Spring 2007	member	FSU	ENSO Forecasting
Rebecca Smith	M.S.	Sum. 2007	member	FSU	Trends in Temperature Extrema
David Ryglicki	M.S.	Fall 2007	member	FSU	Hurricane Paths
Matt Carrier	Ph.D.	Fall 2007	member	FSU	Assimilation of Satellite Obs
Lauren Davison	M.S.	Fall 2007	member	FSU	H*Wind Algorithm
Jeremiah Brown	Ph.D.	Fall 2008	member	FSU	Multiscale energy & vort anal.
Brent Roberts	M.S.	Fall 2008	member	FSU	Diurnal Flux Variability
Chin-Ying Chien	M.S.	ongoing	member	FSU	Ocean temperature variability
Philip Hayes	Ph.D.	ongoing	member	FSU	Hurricane Modeling
Seon Tae Kim	Ph.D.	ongoing	member	FSU	Wind & thermocline structure

Henry Winterbottom	Ph.D.	ongoing	member	FSU	Coupled TC modeling
Micheal Lowry	M.S.	Fall 2008	member	FSU	Pacific hurricane data sets
Christelle Castet	Ph.D.	ongoing	member	FSU	TBD
Mona Behl	Ph.D.	ongoing	member	FSU	TBD
Charlene Furgue	M.S.	ongoing	member	FSU	TBD
Andrew Murray	M.S.	ongoing	member	FSU	TBD
John Smith	M.S.	ongoing	member	FSU	TBD
Alec Bogdanoff	M.S.	ongoing	member	FSU	TBD