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Ortiz-Suslow, David G.

Monterey, California: Naval Postgraduate School

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DAVID G. ORTIZ-SUSLOW

Curriculum Vitae

Last Updated: 1/18/2018

CONTACT INFORMATION

1 University Circle
Naval Postgraduate School
Department of Meteorology
Monterey CA, 93943

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EDUCATION

Doctor of Philosophy
Aug. 2012 – May 2017

**University of Miami, Rosenstiel School
of Marine and Atmospheric Science** – Miami, FL
Applied Marine Physics
Chair: Brian Haus, Ph.D.
Title: *Observations and Modeling of Turbulent Air-Sea Coupling in Coastal and Strongly Forced Conditions*

Bachelor of Science
Sep. 2007 – Dec. 2011

University of California at San Diego – La Jolla, CA
Physics (w/ focus in Earth Science)
Minor: Marine Science

APPOINTMENTS

Sept. 2017 – present

Postdoctoral Research Associate
Naval Postgraduate School, Department of Meteorology
Monterey, CA
Mentor: Qing Wang, Ph.D.

Jun. 2017 – Sept. 2017

Postdoctoral Research Associate
University of Miami, Rosenstiel School of Marine and Atmospheric Science
Miami, FL
Supervisor: Hans Graber, Sc.D.

Aug. 2012 – May 2017

Graduate Research Assistant
University of Miami, Rosenstiel School of Marine and Atmospheric Science,
Miami, FL
Advisor: Brian Haus, Ph.D.

Jun. – August 2010

Undergraduate Research Assistant
Scripps Institution of Oceanography
La Jolla, CA
Advisors: Dr. Peter Franks & Melissa Omand

REFEREED PUBLICATIONS

Ortiz-Suslow, D.G., B.K. Haus, and A.J.H.M Reniers, 2017: Modeling Wind-Current Interaction at a Tidal Inlet. *Under review at Estuarine, Coastal and Shelf Science*.

Laxague, N.J.M., B.K. Haus, **D.G. Ortiz-Suslow**, and H.C. Graber, 2017: Unpacking observed air-sea momentum flux in frequency and time. *Under review at JTECH*.

Laxague, N.J., B.K. Haus, **D.G. Ortiz-Suslow**, C.J. Smith, G. Novelli, H. Dai, T. Özgökmen, and H.C. Graber, 2017: Passive Optical Sensing of the Near-Surface Wind-Driven Current Profile. *J. Atmos. Oceanic Technol.*, 34, 1097–1111, doi: 10.1175/JTECH-D-16-0090.1.

Ortiz-Suslow, D.G., B. K. Haus, S. Mehta, and N. J. M. Laxague (2016), Sea spray generation in very high winds. *J. Atmos. Sci.*, 73, 3975–3995, doi: 10.1175/JAS-D-15-0249.1.

Soloviev, A. V., B. K. Haus, M. G. McGauley, C. W. Dean, **D. G. Ortiz-Suslow**, N. J. M. Laxague, and T. M. Özgökmen (2016), Surface dynamics of crude and weathered oil in the presence of dispersants: Laboratory experiment and numerical simulation, *J. Geophys. Res. Oceans*, 121, doi:10.1002/2015JC011533.

Ortiz-Suslow, D.G., B. K. Haus, S. Mehta, and N. J. M. Laxague (2016), A laboratory study of spray generation in high winds, IOP Conference Series: Earth and Environmental Science. Vol. 35. No. 1. IOP Publishing.

Laxague, N. J. M., **D. G. Ortiz-Suslow**, B. K. Haus, N. J. Williams, and H. C. Graber (2016). Water Surface Slope Spectra in Nearshore and River Mouth Environments, IOP Conference Series: Earth and Environmental Science. Vol. 35. No. 1. IOP Publishing.

Huguenard K., D. Bogucki, **D. G. Ortiz-Suslow**, N. Laxague, J. Hargrove, J. MacMahan, T. M. Özgökmen, B. Haus, and A. Reniers; (2016), Internal Bore Observations Near a River Plume in Coastal Gulf of Mexico, *J. Geophys. Res. Oceans*, 121, doi:10.1002/2015JC010988.

Ortiz-Suslow, D. G., B. K. Haus, N. J. Williams, N. J. M. Laxague, A. J. H. M. Reniers, and H. C. Graber (2015), The spatial-temporal variability of air-sea momentum fluxes observed at a tidal inlet, *J. Geophys. Res. Oceans*, 120, 660–676, doi:10.1002/2014JC010412.

NON-REFEREED PUBLICATIONS, PUBLISHED ABSTRACTS & PRESENTED TALKS

* presented talk

Mehta, S., **D.G. Ortiz-Suslow**, and B. K. Haus, 2017, A Comparison of Fresh and Saline Spume Droplet Production in High Wind Conditions, *in preparation*

***Ortiz-Suslow, D.G.** (2017), Observations and Modeling of Turbulent Air-Sea Coupling in Heterogeneous and Strongly Forced Conditions. Departmental Student Seminar, RSMAS, Miami, FL

Ortiz-Suslow, D.G., B. K. Haus, and A. J. H. M. Reniers (2017), The Role of Wind Forcing on the Ocean Surface in the Coastal Zone. Honolulu, HI. Poster presented at the Association for the Sciences of Limnology and Oceanography Aquatic Sciences Meeting 2017: Air-Water, Sediment-Water, and Macrophyte-facilitated Gas Exchange in Inland and Coastal Systems.

Ortiz-Suslow, D.G., B. K. Haus, N. J. Williams, and H. C. Graber (2016), Field observations of coastal air-sea interaction. San Francisco, CA. Poster presented at the American Geophysical Union Fall 2016 Meeting: Ocean Sciences Session.

***Ortiz-Suslow, D.G.**, and B.K. Haus, The distribution of sea spray Spume particles above actively breaking wind-waves in the laboratory. Oceanflux Green House Gas Project: Science Workshop; September, 9 2016, Brest, France.

***Ortiz-Suslow D. G.**, B. K. Haus, N. J. M. Laxague, N. J. Williams, and H. C. Graber (2016), Wind Stress Variability Observed Over Coastal Waters. Ocean Sciences Meeting 2016, Air-Sea Interaction and Upper Ocean Processes: Advances in Understanding the Physical Processes at the Air-Sea Interface, New Orleans, LA.

Laxague, N. J. M., **D. G. Ortiz-Suslow**, B. K. Haus, N. J. Williams, C. J. Smith, R. Romeiser, and H. C. Graber (2016), Sea surface wave spectral properties in coastal waters. Ocean Sciences Meeting 2016, Air-Sea Interaction and Upper Ocean Processes: Advances in Understanding the Physical Processes at the Air-Sea Interface, New Orleans, LA

***Ortiz-Suslow, D.G.**, B. K. Haus, S. Mehta, and N. J. M. Laxague (2015), A laboratory study of spray generation in high winds. Presented at the 7th International Symposium on Gas Transfer at Water Surfaces 2015. Seattle, WA.

Laxague, N. J. M., B. K. Haus, **D. G. Ortiz-Suslow**, and N. J. Williams; (2015). Water Surface Slope Spectra in Near-Shore and River Mouth Environments, Seattle, WA. Presented at the 7th International Symposium on Gas Transfer at Water Surfaces.

Ortiz-Suslow, D. G., Huguenard, K., Laxague, N. J., Williams, N. J., Bogucki, D., & Haus, B. K (2015), Coastal Dynamics Observed from a Mobile Air-Sea Interaction Platform, Eleventh IEEE/OES Current, Waves and Turbulence Measurement, doi:10.1109/CWTM.2015.7098124.

***Ortiz-Suslow, D. G.**, Huguenard, K., Laxague, N. J., Williams, N. J., Bogucki, D., & Haus, B. K. Coastal Dynamics Observed from a Mobile Air-Sea Interaction Platform. IEEE/OES Current, Waves and Turbulence Measurement Workshop 2015, St. Petersburg, FL.

Haus B. K., N. Laxague, **D. G. Ortiz-Suslow**, H. C. Graber, and R. Romeiser; (2014). Wind-Wave Coupling in a Complex Coastal Environment, San Francisco, CA. American Geophysical Union Fall 2014 Meeting, Ocean Sciences Session.

Huguenard K., D. Bogucki, T. M. Özgökmen, B. K. Haus, A. Reniers, J. MacMahan, J. Hargrove, N. Laxague, and **D. G. Ortiz-Suslow**; (2014). Bolus Generation by a River Plume in Coastal Gulf of Mexico, San Francisco, CA. American Geophysical Union Fall 2014 Meeting, Ocean Sciences Session.

Ortiz-Suslow D. G., B. K. Haus, N. M. Laxague, N. J. Williams, and H. C. Graber; (2014). Wind Stress Variability Directly Measured at a Tidal Inlet from a Mobile Vessel, San Francisco, CA. Poster presented at the American Geophysical Union Fall 2014 Meeting, Ocean Sciences Session.

Sun D., **D. G. Ortiz-Suslow**, B. K. Haus, N. M. Laxague, H. C. Graber, J. Hargrove, M. Caruso, and N. J. Williams; (2014). Investigations into Ebb Tidal Fronts using In Situ Acoustic Backscatter and Optical Satellite Imagery, San Francisco, CA. Poster presented at the American Geophysical Union Fall 2014 Meeting, Ocean Sciences Session

Ortiz-Suslow D. G., B.K. Haus, N.M. Laxague, and N.J. Williams; (2014). Quantifying the Spatial and Temporal Variability of Wind-Stresses Across a Tidal Inlet, Honolulu, HI. Poster presented at the ASLO Ocean Sciences Meeting 2014

Soloviev A., M. McGauley, B. Haus, **D. Ortiz-Suslow**, N. Laxague, B. Hamilton; (2014). Modeling of Multi-Phase Environments at the Air-Sea Interface in the Presence of Oil and Dispersants, Mobile, AL. Poster presented at the Annual Gulf of Mexico Research Initiative All-Hands Meeting.

Novelli G., R. Pennel, **D. Ortiz-Suslow**, N. Laxague, C. Smith, T. Ozgokmen, A. Reniers; (2014). Experiments in the Ocean Near-Surface Layer, Mobile, AL. Poster presented at the Annual Gulf of Mexico Research Initiative All-Hands Meeting.

AWARDS

Apr. 2017	Graduate Studies Service Award, University of Miami – RSMAS
Apr. 2017	Best Student Seminar & Best Presentation Skills, Ocean Sciences Department, University of Miami – RSMAS
Feb. 2017	National Research Council Postdoctoral Research Associateship
Apr. 2013	Best Student Research Proposal, Applied Marine Physics Division, University of Miami – RSMAS
Jun. 2010	California Sea Grant John D. Isaacs Marine Undergraduate Research Assistantship

TEACHING EXPERIENCE

Spring 2017	Guest Lecturer , University of Miami, RSMAS <i>Coastal Physics and Engineering</i>
Spring 2016	Teaching Assistant , University of Miami, RSMAS <i>Physical Oceanography Lab</i> Guest Lecture: <i>Introduction to Ocean Waves, Wind-Wave Generation and Growth, Wave Motions, Wave-Current Interactions, Wave Breaking, Introduction to Tides</i>
Spring 2015	Teaching Assistant , University of Miami, RSMAS <i>Physical Oceanography Lab</i>
Fall 2013	Teaching Assistant , University of Miami, RSMAS <i>Introduction to Oceanography Lab</i> Guest Lecture: <i>Introduction to Paleoceanography</i>

PROFESSIONAL INVOLVEMENT

Feb. 2018	Primary Chair , Ocean Sciences Meeting 2018, Portland, OR, USA Session: Air-Sea Interaction
Feb. 2016	Primary Chair , Ocean Sciences Meeting 2016, New Orleans, LA, USA Session: Air-Sea Interaction and Upper Ocean Processes
Aug. 2015 – May 2017	Student Representative to the Graduate Academic Committee University of Miami – RSMAS
Aug. 2015 – May 2017	Chair of Student-Led Evaluations and Development Committee

University of Miami – RSMAS

Jun. 2013 – Aug. 2015

Representative & Co-Founding Member to the Student-Led Evaluations and Development Committee

University of Miami – RSMAS

FIELD EXPERIENCE

Sep. – Oct. 2017

Couple Air Sea Processes and Electromagnetic ducting Research (CASPER) ONR/MURI, R/P FLIP, **Investigator**, Southern California, *35 total field days*

Jun. 2016

Coastal Land-Air-Sea Interaction Experiment, **Investigator & Research Assistant**, Monterey, CA, *18 field total days*

Sep. 2014 – May 2015

CARTHE Drifter Design Project, **Investigator**, Miami, FL, *10 total field days*

Dec. 1-17 2013

Research Assistant, CARTHE: Surfzone and Coastal Oil Pathways Experiment (SCOPE), Destin, FL, *17 total field days*

Jul. – Nov. 2013

CARTHE Drifter Design Project, **Investigator**, Biscayne Bay, Miami, FL, *12 total field days*

May – Jun. 2013

RIVET ONR/DRI, R/V Point Sur, **Research Assistant** Mouth of the Columbia River, Astoria, OR, *18 total field days*

Apr. 2013

Applied Marine Physics Graduate Research Project, **Principal Investigator**, Biscayne Bay, Miami, FL, *3 total field days*

Feb. – Mar. 2013

NOAA WBTS13, R/V Ronald H. Brown, **CTD Watch Stander**, *17 total field days*.

Oct. 2009

Imperial Beach Pollutant Transport and Dilution Experiment, Scripps Institute of Oceanography, **Research Assistant**, Imperial Beach, CA, *20 total field days*