

James Hooper
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NOAA's Atlantic Oceanographic and Meteorological Laboratory (AOML) | Physical
Oceanography Division (PHOD) | Miami, FL | USA

Education

Florida State University (FSU) Tallahassee, FL (08/2007 to 04/2011)

v Master of Science in Physical Oceanography.

Florida State University (FSU) Tallahassee, FL (08/2001 to 12/2005)

v Bachelor of Science in Physics, Minor in Mathematics.

Work

CIMAS-NOAA/AOML/PHOD, Senior Research Associate I, Key Biscayne, FL (06/16 to present)

v Research scientist for the WBTS cruises in charge of CTD data collection and processing

CIMAS-NOAA/AOML/PHOD, Research Associate III, Key Biscayne, FL (07/11 to 05/16)

v Research scientist for the WBTS cruises in charge of CTD data collection and processing

FSU Department of Oceanography, Graduate Research Assistant, Tallahassee, FL (08/2007 to 04/2011)

v Master's Thesis titled "Dissipation Processes in the Tongue of the Ocean", conducted under advisor Dr. Louis St. Laurent

Escambia County Water Quality Division, Pensacola, Florida (08/06-07/07)

v Water quality scientist sampling water and sediments at rainwater outfalls of local bays and bayous and testing for nutrients (i.e. phosphorous and nitrogen) and heavy metals

Research Experience

WBTS Cruises

v Collect and process hydrographic CTD data
v AB1202, AB1209, AB1302, AB1403, AB1403, AB1502, AB1510, AB1602, AB1705, AB1802, AB1811, AB1911, AB2102

Florida Current Cruises

v Collect and process hydrographic CTD data
v WS1409, WS1414, WS1419, WS1501, FC1507, FC1509, FC1511, FC1603, FC1605, FC1607, FC1609, FC1710, FC1809, FC1810, FC1904, FC1906, FC1907, FC1910, FC2002, FC2105
v Only processed data

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v WS1403, FC1504, FC1505, FC1612, FC1702, FC1706, FC1707, FC1712, FC1804, FC1806, FC1902, FC2012, FC2012B, FC2104

CLIVAR/CO2 Repeat Hydrography Cruises

v Various duties
v A10, A16N, A16S, P16N, P18, I07N, A13.5

GOMECC cruises

v Collect and process hydrographic CTD data
v LADCP and Salinity analysis
v GOMECC-2, GOMECC-3

PNE cruise (2/17 – 3/17)

v CTD operations and salinity analysis

ITOP (Impact of Typhoons on the Ocean in the Pacific) Cold Wake Cruise, Philippine Sea, based from Kaohsiung, Taiwan (09/10-10/10)

v Graduate researcher aboard the R/V Roger Revelle during 21 day cruise working with an underway CTD and a VMP-500 turbulence microstructure profiler

Marine Field Methods cruise, Gulf of Mexico, based from Carrabelle, Florida (6/8/10-6/12/10)

v Graduate researcher aboard the R/V Bellows during 5 day cruise working with CTD and YSI profilers, sediment scoop, and winch operations.

DIMES II (Diapycnal and Isopycnal Mixing Experiment in the Southern Ocean)–US2 Research Cruise, Southern Ocean, based from Punta Arenas, Chile (01/10 to 03/10)

v Graduate researcher aboard R/V Thomas G Thompson during 56 day cruise working CTD casts

Suwannee River Cruise, Gulf of Mexico, based from (04/9/08 to 04/12/08)

v Graduate researcher aboard R/V Bellows during 4 day cruise working with YSI profiler

Relevant Coursework

v Graduate Courses in Chemical Oceanography, Physical Oceanography, Ocean Waves, Polar Oceanography, Dynamical Oceanography, Geophysical Fluid Dynamics, Programming I, Data Analysis Methods

Publications

v Jiang, L.-Q., Feely, R. A., Wanninkhof, R., Greeley, D., Barbero, L., Alin, S., Carter, B. R., Pierrot, D., Featherstone, C., Hooper, J., Melrose, C., Monacci, N., Sharp, J., Shellito, S., Xu, Y.-Y., Kozyr, A., Byrne, R. H., Cai, W.-J., Cross, J., Johnson, G. C., Hales, B., Langdon, C., Mathis, J., Salisbury, J., and Townsend, D. W.: Coastal Ocean Data Analysis Product in North America (CODAP-NA) – An internally consistent data product for discrete inorganic carbon, oxygen, and nutrients on the U.S. North American ocean margins, Earth Syst. Sci. Data Discuss. <https://doi.org/10.5194/essd-13-2777-2021>, 2021.

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v Hooper, J.A., M.O. Baringer and R.H. Smith. Hydrographic Measurements Collected in 2018 During Western Boundary Time Series Cruises in the Florida Current aboard the UNOLS Vessels R/V *Walton Smith* and R/V *Savannah*, (FC1804, FC1806, FC1809, FC1810). NOAA Data Report, OAR-AOML-82, <https://doi.org/10.25923/g23r-a516>, 2021, FY2021

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Walton Smith*, 2017: Western Boundary Time Series cruise: Florida Current. NOAA Data Report, OAR-AOML-78, 165 pp., <https://doi.org/10.25923/j51s-6k46>, 2020 FY2020

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Walton Smith*, 2016: Western Boundary Time Series cruise: Florida Current. NOAA Data Report, OAR-AOML-77, 168 pp., <https://doi.org/10.25923/2dvd-cg65>, 2020 FY2020

v Hooper, J.A., M.O. Baringer, and R.H. Smith. Hydrographic measurements collected aboard the NOAA Ship *Ronald H. Brown*, 23 February-1 March 2018: Western Boundary Time Series cruise RB1801 (AB1802). NOAA Data Report, OAR-AOML-79, 110 pp., <https://doi.org/10.25923/mb6v-jg14> 2020 FY2020

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Endeavor*, May 8-24, 2017: Western Boundary Time Series Cruise EN598 (AB1705). NOAA Data Report, OAR-AOML-75, 188 pp., [doi:10.25923/rszb-p579](https://doi.org/10.25923/rszb-p579) 2018 FY2018

v Hooper J.A., and M.O. Baringer. Hydrographic measurements collected aboard the NOAA Ship R/V *Ronald H. Brown*, 11 September-21 September 2007: Western Boundary Time Series Cruise RB-07 08 (AB0709). NOAA Data Report, OAR-AOML-60, 193 pp., 2018 FY2018

v Jia-Zhong Zhang, Baringer, M.O., Fischer, C.J. & Hooper, J.A.V. An estimate of diapycnal nutrient fluxes to the euphotic zone in the Florida Straits. *Sci Rep* 7, 16098 (2017). <https://doi.org/10.1038/s41598-017-15853-0>

v (2017). An estimate of diapycnal nutrient fluxes to the euphotic zone in the Florida Straits. *Scientific Reports*. 7. . [10.1038/s41598-017-15853-0](https://doi.org/10.1038/s41598-017-15853-0).

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Endeavor*, February 16-28, 2016: Western Boundary Time Series cruise EN574 (AB1602). NOAA Data Report, OAR-AOML-56, 211 pp., 2016 FY2016

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v Hooper V, J.A., M.O. Baringer, L.C. St. Laurent, W.K. Dewar, D.P. Nowacek, Dissipation Processes in the Tongue of the Ocean (2016), *J. Geophys. Res.*, 121, 3159-3170, doi:10.1002/2015JC011165 FY2016

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Walton Smith*, 2015: Western Boundary Time Series cruise: Florida Current. NOAA Data Report, OAR-AOML-55, 164 pp., 2016 FY2016

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Endeavor*, October 3-20, 2015: Western Boundary Time Series cruise EN570 (AB1510). NOAA Data Report, OAR-AOML-54, 188 pp., 2016 FY2016

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the R/V *Cape Hatteras*, September-October 2008: Western Boundary Time Series Cruise AB0809. NOAA Data Report, OAR-AOML-53, 103 pp., 2016 FY2016

v Hooper J.A., and M.O. Baringer. Hydrographic measurements collected aboard the NOAA Ship R/V *Ronald H. Brown*, 16 April-5 May 2009: Western Boundary Time Series Cruise RB-0901 (AB0904). NOAA Data Report, OAR-AOML-52, 223 pp., 2015 FY2015

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the National Environmental Research Council Ship RSS *Discovery*, 21 November-6 December 2009: Western Boundary Time Series Cruise D345 (AB0911). NOAA Data Report, OAR-AOML-49, 147 pp., 2015 FY2015

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Endeavor*, 14 February-27 February 2015: Western Boundary Time Series Cruise EN551 (AB1502). NOAA Data Report, OAR-AOML-51, 215 pp., 2015 FY2015

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Oceanus*, Leg 1: 23 March-4 April 2010 and Leg 2: 6 April-17 April 2010: Western Boundary Time Series Cruise OC459-1 and OC459-2 (AB1003). NOAA Data Report, OAR-AOML-48, 232 pp., 2015 FY2015

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Walton Smith*, 2014: Western Boundary Time Series Cruise: Florida Current. NOAA Data Report, OAR-AOML-50, 122 pp., 2015 FY2015

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Knorr*, 13 April-3 May 3, 2011. Western boundary time series cruise KN-200-4 (AB1104). NOAA Data Report, OAR-AOML-47, 201 pp., doi:10.7289/V5416V09 2014 FY2015

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v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the NOAA Ship R/V *Ronald H. Brown*, 19 February-5 March 2013: Western boundary time series cruise RB-1302 (AB1302). NOAA Data Report, OAR-AOML-45, 257 pp., doi:10.7289/V5CN71VB 2014 FY2014

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the UNOLS Ship R/V *Endeavor*, 24 September-10 October 2012: Western boundary time series cruise EN-517 (AB1209). NOAA Data Report, OAR-AOML-44, 190 pp., doi:10.7289/V5SF2T3R 2014 FY2014

v Hooper, J.A., and M.O. Baringer. Hydrographic measurements collected aboard the NOAA Ship *Ronald H. Brown*, 15 February-5 March 2012: Western boundary time series cruise RB-12-01 (AB1202). NOAA Data Report, OAR-AOML-43, 267 pp., doi:10.7289/V57W6941 2013 FY2014

v Hooper, JA 2011. *Dissipation Processes in the Tongue of the Ocean*. Master's Thesis. Florida State University, Department of Oceanography, Tallahassee, FL. 46 Pages.

Presentations

v Hooper, J.A. 2020. *GOMECC3 CTD Data Quality Control*. North American Coastal Synthesis Workshop, January 6, 2020. Talk.

v Hooper, J.A. 2012. *CTD Data Acquisition and Processing*. GOMECC-2: Coastal Remote Sensing Products Workshop, December 10-11, 2012. Talk.

v Hooper, J.A., St. Laurent, L. 2010. *Dissipation Processes in the Tongue of the Ocean*. 5th Annual Department of Oceanography Student Symposium, November 12th, 2010. Talk.