

NSF BIOGRAPHICAL SKETCH

NAME: Estapa, Margaret

ORCID: 0000-0002-8000-8517

POSITION TITLE & INSTITUTION: Assistant Professor, University of Maine

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Carleton College	Northfield, MN	Chemistry	BA	2001
University of Maine	Orono, ME	Oceanography	PHD	2011
Woods Hole Oceanographic Institution	Woods Hole, MA	Marine Chemistry and Geochemistry	Postdoctoral Fellow	2011 - 2013

(b) APPOINTMENTS

- 2020 - present Assistant Professor, University of Maine, School of Marine Sciences - Darling Marine Center, Walpole, ME
- 2016 - present Adjunct Scientist, Woods Hole Oceanographic Institution, Marine Chemistry and Geochemistry, Woods Hole, MA
- 2014 - 2020 Assistant Professor, Skidmore College, Geosciences, Saratoga Springs, NY
- 2013 - 2013 Postdoctoral Investigator, Woods Hole Oceanographic Institution, Marine Chemistry and Geochemistry, Woods Hole, MA
- 2011 - 2013 Postdoctoral Scholar, Woods Hole Oceanographic Institution, Marine Chemistry and Geochemistry, Woods Hole, MA
- 2008 - 2011 Graduate Research Fellow, University of Maine, School of Marine Sciences, Orono, ME
- 2005 - 2008 Graduate Research Assistant, University of Maine, School of Marine Sciences, Orono, ME
- 2001 - 2005 Assistant Scientist, Sea Education Association, Woods Hole, MA

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Estapa M, Buesseler K, Boss E, Gerbi G. Autonomous, high-resolution observations of particle flux in the oligotrophic ocean. *Biogeosciences*. 2013 August 16; 10(8):5517-5531. Available from: <http://www.biogeosciences.net/10/5517/2013/> DOI: 10.5194/bg-10-5517-2013
2. Estapa M, Durkin C, Buesseler K, Johnson R, Feen M. Carbon flux from bio-optical profiling floats: Calibrating transmissometers for use as optical sediment traps. *Deep Sea Research Part I: Oceanographic Research Papers*. 2017 February /; 120:100-111. DOI: 10.1016/j.dsr.2016.12.003
3. Estapa M, Feen M, Breves E. Direct Observations of Biological Carbon Export From Profiling Floats in the Subtropical North Atlantic. *Global Biogeochemical Cycles*. 2019; 33:282-300. Available from: <https://agupubs.onlinelibrary.wiley.com/doi/abs/10.1029/2018GB006098> DOI: 10.1029/2018GB006098
4. Baker C, Estapa M, Iversen M, Lampitt R, Buesseler K. Are all sediment traps created equal? An intercomparison study of carbon export methodologies at the PAP-SO site. Progress in

Oceanography. 2020; 184:102317. Available from:

<http://www.sciencedirect.com/science/article/pii/S0079661120300562> PMID: 0079-6611

5. Estapa M, Valdes J, Tradd K, Sugar J, Omand M, Buesseler K. The Neutrally Buoyant Sediment Trap: Two Decades of Progress. *Journal of Atmospheric and Oceanic Technology*. 2020 June /; 37(6):957-973. Available from: <http://journals.ametsoc.org/doi/10.1175/JTECH-D-19-0118.1> DOI: 10.1175/JTECH-D-19-0118.1

Other Significant Products, Whether or Not Related to the Proposed Project

1. Durkin C, Estapa M, Buesseler K. Observations of carbon export by small sinking particles in the upper mesopelagic. *Marine Chemistry*. 2015; 175:72-81. Available from: <http://www.sciencedirect.com/science/article/pii/S0304420315000390> DOI: 10.1016/j.marchem.2015.02.011
2. Estapa M, Siegel D, Buesseler K, Stanley R, Lomas M, Nelson N. Decoupling of net community and export production on submesoscales in the Sargasso Sea. *Global Biogeochemical Cycles*. 2015 July 01; :2014GB004913. Available from: <http://dx.doi.org/10.1002/2014GB004913> PMID: 10.1002/2014GB004913
3. Estapa M, Buesseler K, Durkin C, Omand M, Benitez-Nelson C, Breves E, Kelly R, Pike S, Roca-Martí M. Biogenic sinking particle fluxes and sediment trap collection efficiency at Ocean Station Papa. *Elementa: Science of the Anthropocene*. Forthcoming.
4. Buesseler K, Benitez-Nelson C, Roca-Martí M, Wyatt A, Resplandy L, Clevenger S, Drysdale J, Estapa M, Pike S, Umhau B. High-resolution spatial and temporal measurements of particulate organic carbon flux using thorium-234 in the northeast Pacific Ocean during the EXport Processes in the Ocean from RemoTe Sensing field campaign. *Elementa: Science of the Anthropocene*. 2020 December 10; 8(1):030. Available from: <https://online.ucpress.edu/elementa/article/doi/10.1525/elementa.030/114489/Highresolution-spatial-and-temporal-measurements> DOI: 10.1525/elementa.030
5. Durkin C, Buesseler K, Cetinić I, Estapa M, Kelly R, Omand M. A visual tour of carbon export by sinking particles. *bioRxiv*. 2021 January 01; :2021.02.16.431317. Available from: <http://biorxiv.org/content/early/2021/02/17/2021.02.16.431317.abstract> DOI: 10.1101/2021.02.16.431317

(d) SYNERGISTIC ACTIVITIES

1. Served as a member of the NASA EXPORTS Science Definition Team, which drafted an implementation plan for a comprehensive field campaign to observe and model mechanistic linkages in the ocean's biological pump
2. As a participant in the Biology of the Biological Pump workshop held in Feb. 2016, contributed to the NSF Biological Oceanography program's effort to identify directions for future Biological Pump research
3. Developed new, discovery-driven lab modules to more effectively engage non-science students in the interdisciplinary study of the oceans
4. Regularly serves as a session organizer for Ocean Sciences meetings
5. Serves as a peer reviewer for scientific journals in the field of oceanography