

BIOGRAPHICAL SKETCH

PHOEBE J. LAM

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PROFESSIONAL PREPARATION

MIT Cambridge, MA; Environmental Engineering Science; S.B., June 1997
Princeton University Princeton, NJ; Geosciences; M.A., May 1999
UC Berkeley Berkeley, CA; Earth and Planetary Science; Ph.D., December 2005
WHOI Woods Hole, MA; postdoc; Dec 2005-May 2007

APPOINTMENTS

July 2018-: *Associate Professor*, Department of Ocean Sciences, University of California, Santa Cruz, Santa Cruz, CA.
July 2014-June 2018: *Assistant Professor*, Department of Ocean Sciences, University of California, Santa Cruz, Santa Cruz, CA.
July 2011-June 2014: *Associate Scientist without tenure*, Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA.
June 2007-July 2011: *Assistant Scientist*, Department of Marine Chemistry and Geochemistry, Woods Hole Oceanographic Institution, Woods Hole, MA.

PUBLICATIONS

MOST RELEVANT PUBLICATIONS

Lam, P. J., J.-M. Lee, M. I. Heller, S. Mehic, Y. Xiang, and N. R. Bates. 2018. Size-fractionated distributions of suspended particle concentration and major phase composition from the U.S. GEOTRACES Eastern Pacific Zonal Transect (GP16). *Marine Chemistry*. doi: 10.1016/j.marchem.2017.08.013
Lerner, P., O. Marchal, **P. J. Lam**, K. Buesseler, and M. Charette. 2017. Kinetics of thorium and particle cycling along the U.S. GEOTRACES North Atlantic Transect. *Deep Sea Research Part I: Oceanographic Research Papers* 125: 106-128.
Lam, P.J. and O. Marchal. 2015. Insights into Particle Cycling from Thorium and Particle Data. *Annu. Rev. Mar. Sci.*, 7: 159-184. doi: 10.1146/annurev-marine-010814-015623
Ohnemus, D.C. and **P.J. Lam**. 2015. Cycling of Lithogenic Marine Particulates in the US GEOTRACES North Atlantic Zonal Transect. *Deep-Sea Research II: Topical Studies in Oceanography*, 116(0): 283-302. doi: 10.1016/j.dsr2.2014.11.019
Marchal, O. and **P.J. Lam**. 2012. What can paired measurements of Th isotope activity and particle concentration tell us about particle cycling in the ocean? *Geochimica et Cosmochimica Acta* 90, 126-148. doi:10.1016/j.gca.2012.05.009.

OTHER PUBLICATIONS

Lam, P.J., B.S. Twining, C. Jeandel, A.N. Roychoudhury, J.A. Resing, W. Geibert, P.H. Santschi, R.F. Anderson, 2015. Methods for analyzing the concentration and speciation

- of major and trace elements in marine particles. *Progress in Oceanography* (special issue on particles), 133(0): 32-42. doi:10.1016/j.pocean.2015.01.005
- Rosengard, S., **P. J. Lam**, W. Balch, M. Auro, S. Pike, D. Drapeau, and B. Bowler. 2015. Carbon export and transfer to depth across the Southern Ocean Great Calcite Belt, *Biogeosciences*, 12, 3953-3971, doi:10.5194/bg-12-3953-2015
- Lima, I.D., **P. J. Lam**, and S.C. Doney. 2013. Dynamics of particulate organic carbon flux in a global ocean model. *Biogeosciences*, 11 (4), 1177-1198. doi:10.5194/bg-11-1177-2014.
- Bishop, J.K.B., **P. J. Lam**, T.J. Wood. 2012. Getting good particles: accurate sampling of particles by large volume in-situ filtration. *Limnology and Oceanography Methods* 10, 681-710. doi:10.4319/lom.2012.10.681.
- Lam, P. J.**, S.C. Doney, and J. K. B. Bishop. 2011. The dynamic ocean biological pump: insights from a global compilation of Particulate Organic Carbon, CaCO₃, and opal concentration profiles from the mesopelagic. *Global Biogeochemical Cycles*, **25(3)**: GB3009, doi:10.1029/2010GB003868.

SYNERGISTIC ACTIVITIES

1. Science communication to the public via media sources—interviews since 2015 include: “Brains On!”, a science podcast for children; Alaska Public Radio; “Living Lab”, a weekly science show on WCAI
2. Co-chair of the international GEOTRACES Scientific Steering Committee
3. Co-organizer of an international intercalibration exercise for total particulate trace metals and major particle composition.
4. GEOTRACES elemental co-coordinator for particulate trace elements
5. Co-chief scientist for U.S. GEOTRACES cruise Pacific Meridional Section (GP15)