

NSF BIOGRAPHICAL SKETCH

NAME: Blomquist, Byron

ORCID: 0000-0002-3366-6269

POSITION TITLE & INSTITUTION: Research Scientist, University of Colorado / CIRES

(a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR / AREA OF STUDY	DEGREE (if applicable)	YEAR YYYY
Loma Linda University	Riverside, CA	Biochemistry	BA	1979
Washington State University	Pullman, WA	Chemistry	PHD	1984
Drexel University	Philadelphia, PA	Atmospheric Chemistry	Postdoctoral Fellow	1988 - 1990

(b) APPOINTMENTS

2012 - Research Scientist, University of Colorado / CIRES, Boulder, CO
1997 - 2014 Associate Researcher, University of Hawaii, Honolulu, HI
1990 - 1994 Research Assistant Professor, Drexel University, Philadelphia, PA
1987 - 1988 Supervisor, Neutron Activation Analysis Facility, Chemex Labs, Ltd., Vancouver

(c) PRODUCTS

Products Most Closely Related to the Proposed Project

1. Blomquist B, Brumer S, Fairall C, Huebert B, Zappa C, Brooks I, Yang M, Bariteau L, Prytherch J, Hare J, Czerski H, Matei A, Pascal R. Wind Speed and Sea State Dependencies of Air-Sea Gas Transfer: Results From the High Wind Speed Gas Exchange Study (HiWinGS). *Journal of Geophysical Research: Oceans*. 2017; 122(10):8034--8062.
2. Blomquist B, Huebert B, Fairall C, Faloon I. Determining the sea-air flux of dimethylsulfide by eddy correlation using mass spectrometry. *Atmospheric Measurement Techniques*. 2010; 3(1).
3. Blomquist B, Huebert B, Fairall C, Bariteau L, Edson J, Hare J, McGillis W. Advances in Air-Sea CO₂ Flux Measurement by Eddy Correlation. *Boundary-Layer Meteorol*. 2014; 152:245--276.
4. Brumer S, Zappa C, Blomquist B, Fairall C, Cifuentes-Lorenzen A, Edson J, Brooks I, Huebert B. Wave-Related Reynolds Number Parameterizations of CO₂ and DMS Transfer Velocities. *Geophysical Research Letters*. 2017; 44(19):9865--9875.
5. Yang M, Nightingale P, Beale R, Liss P, Blomquist B, Fairall C. Atmospheric deposition of methanol over the Atlantic Ocean. *Proceedings of the National Academy of Sciences*. 2013; 110(50):20034--20039.

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

1. Bailey K, Toole D, Blomquist B, Najjar R, Huebert B, Kieber D, Kiene R, Matrai P, Westby G, del Valle D. Dimethylsulfide production in Sargasso Sea eddies. *Deep-Sea Research II*. 2008;

55(10--13):1491--1504.

2. Blomquist B, Fairall C, Huebert B, Wilson S. Direct measurement of the oceanic carbon monoxide flux by eddy correlation. *Atmospheric Measurement Techniques*. 2012; 5:3069--3075.
3. Conley S, Faloon I, Miller G, Lenschow D, Blomquist B, Bandy A. Closing the dimethyl sulfide budget in the tropical marine boundary layer during the Pacific Atmospheric Sulfur Experiment. *Atmospheric Chemistry and Physics*. 2009; 9:8745--8756.
4. Faloon I, Lenschow D, Campos T, Stevens B, van Zanten M, Blomquist B, Thornton D, Bandy A, Gerber H. Observations of entrainment in eastern Pacific marine stratocumulus using three conserved scalars. *Journal of the Atmospheric Sciences*. 2005; 62(9):3268--3285.
5. Stevens B, Lenschow D, Faloon I, Moeng C, Lilly D, Blomquist B, Vali G, Bandy A, Campos T, Gerber H, Haimov S, Morley B, Thornton D. On entrainment in nocturnal marine stratocumulus. *Quarterly Journal of the Royal Meteorological Society*. 2003; 129(595):3469--3493.

(d) SYNERGISTIC ACTIVITIES

1. 2017 - present, Assoc. Editor, atmospheric science, *Elementals: Science of the Anthropocene*
2. 2016 - present, member, UNOLS Fleet Improvement Committee
3. 1995 - 1996, volunteer, US Peace Corps, math / science education, Zimbabwe
4. 1985 - 1986, volunteer, US Peace Corps, math / science education, Zimbabwe