

## BIOGRAPHICAL SKETCH

NAME: Blomquist, Byron

ORCID: 0000-0002-3366-6269

POSITION: Research Scientist, University of Colorado / CIRES

### (a) PROFESSIONAL PREPARATION

INSTITUTION	LOCATION	MAJOR/AREA	DEGREE	YEAR
Loma Linda Univ.	Riverside, CA	Biochemistry	BA	1979
Washington State Univ.	Pullman, WA	Chemistry	PhD	1984
Drexel Univ.	Philadelphia, PA	Atmospheric Chemistry	Postdoctoral Fellow	1988-1990

### (b) APPOINTMENTS

2010 - present	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. Pullman WA

### (c) SELECTED PUBLICATIONS

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. Available from: <https://doi.org/10.1002%2F2017jc013181>
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). Available from: <http://doi.org/10.5194/amt-3-1-2010>
3. Blomquist B, Huebert B, Fairall C, Bariteau L, Edson J, Hare J, McGillis W. Advances in Air-Sea CO<sub>2</sub> Flux Measurement by Eddy Correlation. *Boundary-Layer Meteorol*. 2014; 152:245--276. Available from: <http://dx.doi.org/10.1007/s10546-014-9926-2>
4. Brumer S, Zappa C, Blomquist B, Fairall C, Cifuentes-Lorenzen A, Edson J, Brooks I, Huebert B. Wave-Related Reynolds Number Parameterizations of CO<sub>2</sub> and DMS Transfer Velocities. *Geophysical Research Letters*. 2017; 44(19):9865--9875. Available from: <https://doi.org/10.1002%2F2017gl074979>

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. Available from: <http://doi.org/10.1073/pnas.1317840110>
6. 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. Available from: <http://doi.org/10.1016/j.dsr2.2008.02.011>
7. 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. Available from: <http://doi.org/10.5194/amt-5-3069-2012>
8. Conley S, Faloona 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. Available from: <http://doi.org/10.5194/acp-9-8745-2009>
9. Faloona 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. Available from: <http://doi.org/10.1175/JAS3541.1>
10. Stevens B, Lenschow D, Faloona 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. Available from: <http://doi.org/10.1256/qj.02.202>

#### **(d) SYNERGISTIC ACTIVITIES**

2017 - present	Assoc. Editor, Atmospheric Science, <i>Elementa: Science of the Anthropocene</i>
2016 - present	Member, UNOLS Fleet Improvement Committee
1996 - 1997	Volunteer, US Peace Corps, Math/Science Education, Zimbabwe
1985 - 1987	Volunteer, US Peace Corps, Math/Science Education, Nepal