

Rhian A. Salmon, Publication List

International Polar Year 2007-2008

Education, Outreach, and Communication

Salmon, R. A., D. J. Carlson, M. Pauls, S. Zicus, M. Hebling Almeida, J. Baeseman, K. Edwards, L. T. Huffman, T. Kolset, M. S. McCaffrey, R. J. H. Malherbe, N. A. Munro, J. de Pomereu, K. Abdul Rahman-Sinclair, M. Raymond, E. Bautista Sparrow; *Science Communication during the International Polar Year 2007-2008: Successes and Recommendations*. Submitted to the Polar Journal, May 2011.

Polar Science and Global Climate - An International Resource for Education and Outreach. B. Kaiser (ed), Pearson, London, 2010. 237pp.

<http://www.ipy.org/hidden/item/2297-promotional-material-for-the-polar-resource-book>

Co-author of Prelude, with D. J. Carlson: The Past and Present of Polar Science

Contributor to ch. 1: Education: Teaching Polar Science in the Classroom

Contributor to ch. 2: Tips and Tricks for Science Presentations

Contributor to ch. 3: Outreach: Inspiring Ideas and Initiatives from around the World

Salmon, Rhian A., David J. Carlson; *International Polar Year – the Poles and the Planet*. In EcoScience; The 34th Harry Messel International Science School, Stewart, Chris, and Anne Green, eds. 146-61. Sydney: Science Foundation of Physics within the University of Sydney, 2007.

British Antarctic Survey:

Chemistry of the Antarctic Boundary Layer and the Interface with Snow

W. J. Bloss, M. Camredon, J. D. Lee, D. E. Heard, J. M. C. Plane, A. Saiz-Lopez, S. J-B. Bauguitte, R. A. Salmon, A. E. Jones (2010). *Coupling of HO_x, NO_x and halogen chemistry in the Antarctic boundary layer*. Atmospheric Chemistry and Physics, 10, No. 21, 10187-10209.

S. J.-B. Bauguitte, W. J. Bloss, M. J. Evans, R. A. Salmon, P. S. Anderson, A. E. Jones, J. D. Lee, A. Saiz-Lopez, H. K. Roscoe, E. W. Wolff, J. M. C. Plane (2009). *Summertime NO_x measurements during the CHABLIS campaign: can source and sink estimates unravel observed diurnal cycles?* Atmospheric Chemistry and Physics Discussions, 9, 20371-20406.

A. Saiz-Lopez, J. M. C. Plane, A. S. Mahajan, P. S. Anderson, S. J-B. Bauguitte, A. E. Jones, H. K. Roscoe, R. A. Salmon, W. J. Bloss, J. D. Lee, D. E. Heard (2008). *On the vertical distribution of boundary layer halogens over coastal Antarctica: implications for O₃, HO_x, NO_x and the Hg lifetime*. Atmospheric Chemistry and Physics, 8, No. 4, 887-900. SRef-ID: 1680-7324/acp/2008-8-887.

E. W. Wolff, A. E. Jones, S. J-B. Bauguitte, R. A. Salmon (2008). *The interpretation of spikes and trends in concentration of nitrate in polar ice cores, based on evidence from snow and atmospheric measurements*. Atmospheric Chemistry and Physics, 8, No. 18, 5627-5634.

A. E. Jones, E. W. Wolff, R. A. Salmon, S. J.-B. Bauguitte, H. K. Roscoe, P. S. Anderson, D. Ames, K. C. Clemmishaw, Z. L. Fleming, W. J. Bloss, D. E. Heard, J. D. Lee, K. A. Read, P. Hamer, D. E. Shallcross, A. V. Jackson, S. Walker, A. C. Lewis, G. P. Mills, J. M. C. Plane, A. Saiz-Lopez, W. T. Sturges, and D. R. Worton (2008). *Chemistry of the Antarctic Boundary Layer and the Interface with Snow: an overview of the CHABLIS campaign*, Atmos. Chem. Phys., Vol.8, pp. 3789-3803

R. A. Salmon, S. J.-B. Bauguitte, W. Bloss, M. A. Hutterli, A. E. Jones, K. Read, and E. W. Wolff (2008). *Measurement and interpretation of gas phase formaldehyde concentrations obtained during the CHABLIS campaign in coastal Antarctica*, Atmospheric Chemistry and Physics, Vol.8, No. 14, pp. 4085-4093

K. A. Read, A. C. Lewis, S. Bauguitte, A. M. Rankin, R. A. Salmon, E. W. Wolff, A. Saiz-Lopez, W. J. Bloss, D. E. Heard, J. D. Lee, and J. M. C. Plane (2008). *DMS and MSA measurements in the Antarctic boundary layer: impact of BrO on MSA production*, Atmospheric Chemistry and Physics, Vol.8, No. 11, pp. 2985-2997

A. Saiz-Lopez, A. S. Mahajan, R. A. Salmon, S. J.-B. Bauguitte, A. E. Jones, H. K. Roscoe and J. M. C. Plane (2007). *Boundary layer halogens in coastal Antarctica*, Science 317, No. 5836, pp 348-351, DOI: 10.1126/science.1141408

G. P. Mills, W. T. Sturges, R. A. Salmon, S. J.-B. Bauguitte, K. A. Read, and B. J. Bandy (2007). *Seasonal variation of peroxyacetylnitrate (PAN) in coastal Antarctica measured with a new instrument for the detection of sub-part per trillion mixing ratios of PAN*, Atmospheric Chemistry and Physics, Vol.7, No. 17, pp. 4589-4599, SRef-ID: 1680-7324/acp/2007-7-4589

W. J. Bloss, J. D. Lee, D. E. Heard, R. A. Salmon, S. J.-B. Bauguitte, H. K. Roscoe, and A. E. Jones (2007). *Observations of OH and HO₂ radicals in coastal Antarctica*, Atmospheric Chemistry and Physics, Vol.7, No. 16, pp. 4171-4185, SRef-ID: 1680-7324/acp/2007-7-4171

K. A. Read, A. C. Lewis, R. A. Salmon, A. J. Jones, and S. J.-B. Bauguitte, (2007). *OH and halogen atom influence on the variability of non-methane hydrocarbons in the Antarctic Boundary Layer*, Tellus Series B- Chemical and Physical Meteorology, 59, 22-38

York University, Canada

R. A. Salmon, C. L. Schiller, G. W. Harris, *Evaluation of the Salicylic Acid – Liquid Phase Scrubbing Technique to Monitor Atmospheric Hydroxyl Radicals*, Journal of Atmospheric Chemistry **48**:81-104, 2004.

R. McLaren, R. A. Salmon, J. Liggio, K. L. Hayden, K. G. Anlauf, R. Leaitch, *Night-time Chemistry at a Rural Site in the Lower Fraser Valley*. Atmospheric Environment **38** 5837-5848, 2004.

R. A. Salmon, *A Radical Detection Technique: Evaluation of a Method to Measure Tropospheric OH*, York University, Toronto, Canada, 2002. **PhD Dissertation**.