

- Cilliers, W. A., H. S. T. Driver and D. G. Steyn, 1972. "A Tetrahedral Spire with an Improved Magnetic Well," *Physical Fusion (letters)*, 8, p. 132.
- Holland, P. G. and D. G. Steyn, 1975. "Vegetational Responses to Latitudinal Variations in Slope Angle and Aspect," *Journal of Biogeography*, 2, p. 179-183.
- Steyn, D. G., 1976. "Computation of Azimuths, Slope Angles and Surface Normals Over a Given Topography," *South African Geographical Journal*, 58 (2), p. 130-133.
- Holland, P. G., D. G. Steyn and R. F. Fuggle, 1977. "Habitat Occupation by Mill. (Liliaceae) in Relation to Topographic Variations in Direct Beam Solar Radiation Income," *Journal of Biogeography*, 7, p. 61-72.
- Steyn, D. G. and T. R. Oke, 1980. "Effects of a Small Scrub Fire on the Surface Radiation Budget," *Weather*, 35, p. 212-215.
- Oke, T. R., B. D. Kalanda and D. G. Steyn, 1980. "Parameterization of Heat Storage in Urban Areas," *Urban Ecology*, 5, p. 45-54.
- Steyn, D. G., 1980. "The Calculation of View Factors from Fisheye-Lens Photographs," *Atmosphere-Ocean*, 18, p. 254-258.
- Steyn, D. G., T. R. Oke, J. E. Hay and J. L. Knox, 1981. "On Scales in Meteorology and Climatology," *McGill Climatological Bulletin*, 30, p. 1-8.
- Steyn, D. G., 1982. "Turbulence in an Unstable Surface Layer over Suburban Terrain," *Boundary Layer Meteorology*, 22, p. 183-191.
- Steyn, D. G. and T. R. Oke, 1982. "The Depth of the Daytime Mixed Layer at Two Coastal Sites: A Model and its Validation," *Boundary Layer Meteorology*, 24, p. 161-180.
- Steyn, D. G. and T. J. Lyons, 1985. "Comments on the Determination of View-factors in Urban Canyons," *Journal of Climate and Applied Meteorology*, 24 (4), p. 383-385.
- Steyn, D. G., 1985. "An Objective Method to Achieve Closure of Overdetermined Surface Energy Budgets," *Boundary Layer Meteorology*, 33 (3), p. 303-310.
- Steyn, D. G. and K. W. Ayotte, 1985. "Application of Two Dimensional Terrain Height Spectra to Mesoscale Modelling," *Journal of Atmospheric Science*, 42 (24), p. 2884-2887.
- Grimmond, C. S. B., T. R. Oke and D. G. Steyn, 1986. "Urban Water Balance I: A Simple Model for Daily Totals," *Water Resources Research*, 22 (10), p. 1397-1403.

- Steyn, D. G. and D. A. Faulkner, 1986. "The Climatology of Sea-breezes in the Lower Fraser Valley, BC, Climatological Bulletin, 20 (3), p. 21-39.
- Steyn, D. G., J. D. Hay, I. D. Watson, and G. T. Johnson, 1986. "The Determination of Sky View-factors in Urban Environments using Video Imagery," Journal of Atmospheric and Oceanic Technology, 3, p. 759-764.
- Reason C. J. C. and D. G. Steyn, 1988. Comments on "The Propagation of Atmospheric Kelvin Waves around Cape Mendocino," Monthly Weather Review, 116, p. 804-805.
- Steyn, D. G. and I. G. McKendry, 1988. "Quantitative and Qualitative Evaluation of a Three Dimensional Mesoscale Numerical Model of a Sea Breeze in Complex Terrain," Monthly Weather Review, 116 (18), p. 1914-1926.
- Robeson, S. M. and D. G. Steyn, 1989. "A Conditional Probability Density Function for Ozone Air Quality Data," Atmospheric Environment, 23 (3), p. 689-692.
- Roth, M., T. R. Oke and D. G. Steyn, 1989. "Spectral Analysis of Turbulence in an Unstable Suburban Atmosphere," Boundary-Layer Meteorology, 47, p. 309-320.
- Steyn, D. G. and M. Segal, 1990. "The Enhancement of Crosswind Pollutant Dispersion by Steadily Veering Winds," Journal of Applied Meteorology, 29, p. 427-430.
- Segal, M. and D. G. Steyn, 1990. "On a Strategy for Reducing Short-range Daytime Ground Level Concentrations due to Emissions from Very Tall Stacks," Journal of the Air and Waste Management Association, 40 (2), p. 220-223.
- Robeson, S. M. and D. G. Steyn, 1990. "Evaluation of Statistical Forecast Models for Daily Maximum Ozone Concentrations," Urban Atmosphere, 24b, p. 303-312.
- Reason, C. J. C. and D. G. Steyn, 1990. "Coastally Trapped Disturbances in the Lower Atmosphere: Geographic Diversity and Dynamical Similarity," Progress in Physical Geography, 12 (2), p. 178-198.
- Steyn, D. G., 1990. "An Advective Mixed-layer Model for Heat and Moisture Incorporating an Analytic Expression for Moisture Entrainment," Boundary-Layer Meteorology, 53, p. 21-33.
- Voogt, J. A. and D. G. Steyn, 1991. "An Automated Radiometer Traversing System for Use in a Model Urban Canyon," Journal of Atmospheric and Oceanic Technology, 8, p. 531-540.
- Steyn, D. G. and G. Kallos, 1991. "A Dynamical Study of Hodograph Rotation in the Sea Breeze of Attica, Greece," Boundary-Layer Meteorology, 58, p. 215-228.

- Johnson, G. J., T. R. Oke, T. J. Lyons, D. G. Steyn, I. D. Watson and J. A. Voogt, 1991. "Simulation of Surface Urban Heat Islands under 'Ideal' Conditions at Night, Part I: Theory and Tests against Field Data," *Boundary-Layer Meteorology*, 56, p. 275-294.
- Oke, T. R., G. T. Johnson, D. G. Steyn and I. D. Watson, 1991. "Simulation of Surface Urban Heat Islands under 'Ideal' Conditions at Night, Part II: Diagnosis of Causation," *Boundary-Layer Meteorology*, 56, p. 339-358.
- Reason, C. J. C. and D. G. Steyn, 1992. "Nonlinear Semigeostrophic Theory of Coastally Trapped Disturbances in the Lower Atmosphere," *Journal of Atmospheric Science*, 49, p. 1677-1692.
- Steyn, D. G., 1992. Invited review of "Micro and Meso-climatology," *Progress in Physical Geography*, 16 (1), p. 101-105.
- Jackson, P. L. and D. G. Steyn, 1994. "Gap winds in a fjord, part I: Observations and numerical simulation," *Monthly Weather Review*, Vol. 22, p. 2645-2665.
- Jackson, P. L. and D. G. Steyn, 1994. "Gap winds in a fjord, part II: Hydraulic analogue," *Monthly Weather Review*, Vol. 22, p. 2666-2676.
- Finnegan, T. D., J. Vine, P. L. Jackson, S. E. Allen, G. A. Lawrence and D. G. Steyn, 1994. "Gap winds in a fjord, part III: Hydraulic physical modelling and observations of a severe event," *Monthly Weather Review*, Vol. 22, p. 2677-2687.
- Pryor, S. P., D. G. Steyn and S. Rogak, 1994. "Source apportionment of visibility degrading aerosols in the Lower Fraser Valley, British Columbia," *Atmosphere-Ocean*, Vol. 32(4), p. 663-683.
- Pryor, S. C., I. G. McKendry and D. G. Steyn, 1994. "Synoptic-scale meteorological variability and surface ozone concentrations in Vancouver, BC," *Journal of Applied Meteorology*, Vol. 34, No. 8, p. 1824-1833.
- Miao, Y. and D. G. Steyn, 1994. "Mesometeorological modelling and trajectory analysis during an air pollution episode in the Lower Fraser Valley, BC," *Transactions of Regional Photochemical Measurement and Modelling Studies Conference*, p. 249-281.
- Bohme, S. A., R. McLaren, M. Hedley, D. Singleton, N. M. Suzuki and D. G. Steyn, 1994. "Visualization of Urban Airshed Model data," *Transactions of Regional Photochemical Measurement and Modelling Studies Conference*, p. 293-310.
- Pryor, S. C. and D. G. Steyn, 1995. "Hebdomadal and diurnal cycles in ozone time series from the Lower Fraser Valley, BC," *Atmospheric Environment*, Vol. 29, No. 9, p. 1007-1019.

Reason, C. J. C. and D. G. Steyn, 1995. Reply to "The relative contributions of marine layer dynamics and synoptic effects to coastally trapped disturbances in the lower atmosphere: The event of May, 1982 in California - a reply," *Journal of Atmospheric Science*, Vol. 52, No. 12, p. 2319-2324.

Cai, X., D. G. Steyn and I. S. Gartshore, 1995. "Resolved scale turbulence in the atmospheric surface layer from Large Eddy Simulations," *Boundary Layer Meteorology*, Vol. 75, No. 3, p. 301-314.

McKendry, I. G., D. G. Steyn and G. A. McBean, 1995. "Validation of synoptic circulation patterns predicted by the Canadian Climate Centre Global Circulation Model for Western North America," *Atmosphere-Ocean*, Vol. 33, No. 4, p. 809-825.

Cai, X. and D. G. Steyn, 1996. "The Von Karman constant determined by Large Eddy Simulations," *Boundary Layer Meteorology*, Vol. 78, Nos. 1-2, p. 143-164.

Uno, I., X. Cai, D. G. Steyn and S. Emori, 1996. "A simple extension of the Louis method for rough surface layer modelling," *Boundary Layer Meteorology*, Vol. 76, No. 4, p. 395-409.

Joe, H., D. G. Steyn and E. Susko, 1996. "Analysis of trends in tropospheric ozone in the Lower Fraser Valley, British Columbia," *Atmospheric Environment*, Vol. 30, No. 20, p. 3413-3423.

McKendry, I. G., D. G. Steyn, J. Lundgren, R. M. Hoff, W. Strapp, K. Anlauf, F. Froude, B. A. Martin, R. M. Banta and L. D. Olivier, 1997. "Elevated pollution layers and vertical downmixing over the Lower Fraser Valley, BC," *Atmospheric Environment*, Vol. 31(4), p. 2135-2146.

Pisano, J. T., I. G. McKendry, D. G. Steyn and D. R. Hastie, 1997. "Vertical nitrogen dioxide and ozone concentrations measured from a tethered balloon in the Lower Fraser Valley," *Atmospheric Environment*, Vol. 31(4), p. 2071-2078.

Banta, R. M., L. D. Olivier, C.-J. Zhu, K. G. Anlauf, H. A. Wiebe, A. J. Gallant, J. W. Bottenheim, D. G. Steyn, I. G. McKendry, J. Pottier, T. Biesenthal and P. B. Shepson, 1997. "Nocturnal cleansing flows in a tributary valley," *Atmospheric Environment*, Vol. 31(4), p. 2147-2162.

Hayden, K. L., K. G. Anlauf, R. M. Hoff, W. J. Strapp, J. W. Bottenheim, H. A. Wiebe, F. A. Froude, J. B. Martin, D. G. Steyn and I. G. McKendry, 1997. "The vertical chemical and meteorological structure of the boundary layer in the Lower Fraser Valley during PACIFIC '93," *Atmospheric Environment*, Vol. 31(4), p. 2089-2106.

- Reid, K. H. and D. G. Steyn, 1997. "Diurnal variations of boundary layer carbon dioxide in a coastal city: Observations and a model," *Atmospheric Environment*, Vol. 31, No. 18, p. 3101-3114.
- Steyn, D. G., J. W. Bottenheim and R. B. Thomson, 1997. "Overview of tropospheric ozone in the Lower Fraser Valley, and the PACIFIC '93 field study," *Atmospheric Environment*, Vol. 31(4), p. 2025-2036.
- Pryor, S. C., R. J. Barthelmie, R. M. Hoff, S. Sakiyama, R. Simpson and D. G. Steyn, 1997. "REVEAL: Characterizing fine aerosols in the Fraser Valley," *Atmosphere- Ocean*, Vol. 35(2), p. 209-227.
- McKendry, I. G., D. G. Steyn, S. O'Kane, P. Zawar-Reza and D. Heuff, 1998. "Lower Tropospheric ozone measurements by light aircraft equipped with chemiluminescent sonde," *Journal of Atmospheric and Oceanic Technology*. 15(1): 136-143.
- McKendry, I. G., D. G. Steyn, R. M. Banta, W. Strapp, K. Anlauf and J. L. Pottier, 1998. "Daytime air quality and local circulations in the Pitt Lake tributary Valley, BC," *Journal of Applied Meteorology*. 37(4): 393-404.
- Cai, X., D. G. Steyn and I. Uno, 1998. "Analytical investigation of a mesoscale model with Newtonian nudging," *Meteorology and Atmospheric Physics*. 64, 231-241.
- Drewitt, G.B., K. Curren, D.G. Steyn, T.J. Gillespie and H. Niki, 1998: Measurement of biogenic hydrocarbon emissions from vegetation in the Lower Fraser Valley, B.C.. *Atmos. Env.* V 32, No. 20, 3457-3466.
- Steyn, D.G., 1998: Scaling the vertical structure of sea breezes. *Boundary layer Meteorology* , 86, 505-524.
- Batchvarova, E., X. Cai, S.-E. Gryning and D.G. Steyn. 1999: Modelling internal boundary layer development in a region with a complex coastline. *Boundary Layer Meteorology*, 90, 1-20..
- Steyn, D.G., M. Baldi, and R. Hoff 1999: Detection of mixed layer depth and entrainment zone thickness from lidar backscatter profiles. *J. Atmos. Ocean Tech.* V 16, No. 7, 953-959.
- Nyeki, S., S. De Wekker, D. Steyn, M. Kossmann, M. Kalberer, I. Colbeck and U. Baltensperger, 1999: Airborne lidar study of convective boundary layer development over pre-alpine terrain, *J. Aerosol Science* V 30, 209-210.
- Nyeki, S., M. Kalberer, I. Colbeck, S. De Wekker, M. Furger, H. W. Gäggeler, M. Kossmann, M. Lugauer, D. Steyn, E. Weingartner, M. Wirth, and U. Baltensperger, 2000: Convective Boundary Layer Evolution to 4 km asl over High-Alpine Terrain: Airborne Lidar observations in the Alps. *Geophysical Research Letters*, Vol. 27, no. 5, pp. 689-692

- Cai, X.-M., R.A.S. Hourston and D.G. Steyn, 2000: A Numerical Study of Meteorological Conditions during PACIFIC '93. *Atmosphere-Ocean*. 38, (3), 457-479.
- Cai, X.-M. and D.G. Steyn, 2000: A Modelling Study of Sea Breezes in a Complex Coastal Environment. *Atmospheric Environment*. 34, 2873-2885
- P. Hageli, D.G. Steyn and K. Strawbridge, 2000: Spatial and temporal variability of MLD and EZT. *Boundary Layer Meteorology* 97 (1):47-71.
- Furberg, M., D.G. Steyn and M. Baldi, 2002: Sea Breezes in Sardinia. *International Journal of Climatology* 22, 917-932.
- Steyn, D.G., 2002: Scaling the vertical structure of sea breezes revisited. *Boundary layer Meteorology* . 107, 177-188.
- Steyn, D.G., 2003: Mesoscale circulations and regional air pollution. in D. Melas and D. Sirikov (Eds.) *Air pollution Processes in Regional Scale*. NATO Science Series IV. Earth and Environmental Sciences – Vol. 30, Kluwer, p281-294.
- De Wekker, S.F.J., D.G. Steyn and S. Nyeki, 2004: Aerosol layer- and convective boundary layer structure over a mountain range during STAAARTE'97. *Boundary Layer Meteorology* 113, 149-271.
- Galmarini, S., D. G. Steyn and B. Ainslie, 2004: The scaling law relating world point precipitation records to duration. *Int. J. Climatology*. 24, 533-546.
- De Wekker S.F.J., D.G. Steyn, J.D. Fast, M.W. Rotach, and S. Zhong, 2005: The performance of RAMS in representing the convective boundary layer structure in a very steep valley. *Environmental Fluid Mechanics*. 5, (1-2), 35-62.
- Rotach, Mathias W., Pierluigi Calanca, Giovanni Graziani, Joachim Gurtz, D.G. Steyn, Roland Vogt, Marco Andretta, Andreas Christen, Stanislaw Cieslik, Richard Conolly, Stephan De Wekker, Stefano Galmarini, Eva van Gorsel, Evgeny Kadygov, Vladislav Kadygov, Evgeny Miller, Bruno Neininger, Magdalena Rucker, Heidi Weber, Alexandra Weiss and Massimiliano Zappa, 2004: Turbulence structure and exchange processes in an Alpine Valley: The Riviera project. *Bulletin of the American Meteorological Society*. 85 (9): 1367-1377.
- Reuten, C., D.G. Steyn, K.B. Strawbridge and P. Bovis, 2005: Observed trapping of pollutants in upslope flow systems. *Boundary Layer Meteorology*. 116 (1), 37-61
- Ainslie, B and D.G. Steyn, 2006: A Scaling analysis for Ozone Photochemistry. *Atmospheric Physics and Chemistry*. 6, 4067-4077.
- Porson, A., D.G. Steyn and G. Schayes: 2006: Seabreeze Scaling from Numerical Model Outputs Part I: Pure Seabreezes. *Boundary Layer Meteorology*. 127, (1), 17-29.

- Porson, A., D.G. Steyn and G. Schayes: 2006: Sea Breeze Scaling from Numerical Model Outputs Part II: Interaction between Sea Breezes and Slope Flows. *Boundary Layer Meteorology*. 127, (1), 31-41.
- Porson, A., D.G. Steyn and G. Schayes: 2007: Formulation of an Index for Sea Breezes in Opposing Winds. *Journal of Applied Meteorology*. 46, 1257-1263.
- Ainslie, B and D.G. Steyn, 2007: Spatiotemporal Trends in Episodic Ozone Pollution in the Lower Fraser Valley, B.C. in Relation to Meso-scale Atmospheric Circulation Patterns and Emissions. *Journal of Applied Meteorology*. 46 (10), 1631-1644.
- Reuten, C., D. G. Steyn, and S. E. Allen. 2007: Water Tank Studies of Atmospheric Boundary Layer Structure and Air-Pollution Transport in Upslope Flow Systems. *J. Geophys. Res.* 112, D11114, doi:10.1029/2006JD008045.
- Rucker, Magdalena, Robert M. Banta, Douw G. Steyn, 2008: Along-Valley Structure of Daytime Thermally Driven Flows in the Wipp Valley. *Journal of Applied Meteorology and Climatology*, 47(3), 733–751.
- Ainslie, B., D. G. Steyn, J. Su, M. Buzzelli, M. Brauer, T. Larson and M. Rucker, 2008: A Source Area Model Incorporating Simplified Atmospheric Dispersion and Advection at Fine Scale for Population Air Pollutant Exposure Assessment. *Atmospheric Environment*. 42 (10), 2394-2404 doi 10.1016/j.atmosenv.2007.12.021
- Steyn, D. G. and S. Galmarini, 2008: Evaluating the Predictive and Explanatory Value of Atmospheric Numerical Models: Between Relativism and Objectivism. *The Open Atmospheric Science Journal*, 2, 38-45. doi: 10.2174/1874282300802010038
- Jason G. Su, Michael Brauer, Bruce Ainslie, Douw Steyn, Timothy Larson, and Michael Buzzelli, 2008: An innovative land use regression model incorporating meteorology for exposure analysis. *Science of the Total Environment*. 390, 520 – 529. doi:10.1016/j.scitotenv.2007.10.032
- B. Ainslie, C. Reuten, D. G. Steyn, Nhu D. Le and James V. Zidek , 2009: Application of an Entropy-Based Bayesian Optimization Technique to the Redesign of an Existing Air Pollution Monitoring Network. *Journal of Environmental Management*, 90, 2715–2729. doi:10.1016/j.jenvman.2009.02.016.
- Scott Beaver, Saffet Tanrikulu, Ahmet Palazoglu, Angadh Singh, Su-Tzai Soong, Yiqin Jia, Cuong Tran, Bruce Ainslie, D.G. Steyn, 2010: Categorical Evaluation of Coupled Meteorological and Air Quality Models. *J. Appl. Met. Clim.* 49, 2077- 2091. DOI: 10.1175/2010JAMC2471.1
- Robin Dennis, Tyler Fox, Montse Fuentes · Alice Gilliland, Steven Hanna, Christian Hogrefe , John Irwin, S. Trivikrama Rao, Richard Scheffe, Kenneth Schere, Douw Steyn, Akula Venkatram, 2010: A framework for evaluating regional-scale numerical photochemical modeling systems. *Environ. Fluid Mech.* 10 471–489 DOI 10.1007/s10652-009-9163-2.
- C. Reuten, S. E. Allen, and D. G. Steyn , 2010: Upslope Flows in Atmosphere and Water Tank, Part II: Fluid-Dynamical Smoothness as a Possible Cause for Velocity Similarity Violation. *Open Atmos. Sci. Journal*, 4, 188-201, doi 10.2174/1874120701004010188.

C. Reuten, D. G. Steyn and S. E. Allen, 2010: Upslope Flows in Atmosphere and Water Tank, Part I: Scaling. *Open Atmos. Sci. Journal*, doi 10.2174/1874120701004010178

Cara Lachmuth, Lance G. Barrett-Lennard D. G. Steyn, and William K. Milsom, 2011: Estimation of southern resident killer whale exposure to exhaust emissions from whale-watching vessels and potential adverse health effects and toxicity thresholds. *Marine Pollution Bulletin*, Volume 62, Issue 4, April 2011, Pages 792-805 doi 10.1016/j.marpolbul.2011.01.002.

S. Kalenderski and D.G. Steyn, 2011: Mixed Deterministic Statistical Modelling Of Regional Ozone Air Pollution. *Environmetrics*. DOI:10.1002/env.1088.

Christian Reuten, Bruce Ainslie, Douw G. Steyn, Peter L. Jackson and Ian McKendry 2011, Impact of Climate Change on Ozone Pollution in the Lower Fraser Valley, Canada. *Atmosphere-Ocean* V 50, No. 1, 42-53, <http://dx.doi.org/10.1080/07055900.2011.643444>

A.S. Bajamnigni Gbambie and D.G. Steyn, 2012: Sea Breezes At Cotonou And Their Interaction With The West African Monsoon. *International Journal of Climatology*, 33 (13) 2769-2928 DOI: 10.1002/joc.3637.

D.G. Steyn, P. Builtjes, M. Schaap and G. Yarwood, 2012: Regional Air Quality Modeling: North American and European Perspectives. *Environmental Manager*, July 2012, 6-8.

Steyn, D. G., B. Ainslie, C. Reuten and P. L. Jackson, 2013: A retrospective analysis of ozone formation in the Lower Fraser Valley, B.C. Part I: Dynamical Model Evaluation. *Atmosphere-Ocean*. 51 (2), 153-169. <http://dx.doi.org/10.1080/07055900.2013.781940>

Ainslie, B., D. G. Steyn, C. Reuten and P. L. Jackson. 2013: A retrospective analysis of ozone formation in the Lower Fraser Valley, B.C. Part II: Influence of emissions reductions on ozone formation. *Atmosphere-Ocean*. 51 (2), 170-186. <http://dx.doi.org/10.1080/07055900.2013.782264>

Shawn Booth, Joe Hui, Zoraida Alojado, Vicky Lam, William Cheung, Dirk Zeller, Douw Steyn and Daniel Pauly, 2013: Global deposition of airborne dioxin. *Marine Pollution Bulletin*: Volume 75 (Issue 1-2), pp. 182-186.

Claude-Michel Nzotungicimpaye, Babatunde J. Abiodun and Douw G. Steyn, 2014: Tropospheric ozone and its regional transport over Cape Town. *Atmospheric Environment*. Volume 87, April 2014, Pages 228–238 <http://dx.doi.org/10.1016/j.atmosenv.2014.01.063>.

Mark Bart, David E Williams, Bruce Ainslie, Jennifer Salmond, Ian McKendry, Douw Steyn, Geoff Henshaw, Stuart Grange, 2014: High Density Ozone Monitoring using Gas Sensitive Semi-Conductor Sensors in the Lower Fraser Valley, British Columbia. In Press: *Environmental Science and Technology*, 48 (7), pp 3970–3977 DOI: 10.1021/es404610t.

Moisseeva, N. and Steyn, D. G., 2014: Dynamical analysis of sea-breeze hodograph rotation in Sardinia, *Atmos. Chem. Phys.*, 14, 13471-13481, doi:10.5194/acp-14-13471-2014.

Ainslie, Bruce and N. Moisseeva, R. Vingarzan, C. Schiller, D.G. Steyn, Douw and G. Doerksen., 2018: The Spatiotemporal Response of Summertime Tropospheric Ozone to Changes in Local Precursor Emissions in the Lower Fraser Valley, British Columbia. *Atmosphere-Ocean*, 56 (5), 303-321.