

CURRICULUM VITAE

NAME: John Charles McConnell

DATE OF BIRTH: 11 September 1945

DEGREES: 1969: Ph.D. Queen's University, Belfast
1966: B.Sc. Queen's University, Belfast
(first class honours)

PRESENT POSITION: Professor of Atmospheric Physics,
Department of Earth and Space Science and Engineering
Faculty of Pure and Applied Science, York University
2004 to date.

PREVIOUS

APPOINTMENTS:

2010, Interim Chair, Earth and Space Science and Engineering, 9 months (April-December)

2008: Interim chair, Earth and Space Science and Engineering 6 months

2007: Interim Chair, Earth and Space Science and Engineering (6 months)

2005: Professeur Invité, Université Pierre et Marie Curie, Paris (one month)

1999: Visiting Professor, CSIRO, Lindfield, NSW, Australia (7 months)

1990: (Poste Rouge, CNRS) (3 months) Visiting Professor, IAS, Orsay, France.

1987: Visiting Professor, University of Arizona (3 months)

1987-88: Visiting Professor (Poste-Rouge) L'observatoire de Besançon, Besançon, France (10 months)

1982-1986: Chair, Department of Earth and Atmospheric Science

York University 1980-1981: Professor of Physics, York University

1981-2004 Professor of Atmospheric Science, Department of Earth and Atmospheric Science

1979-1980 Visiting Professor, University of Southern California, Tucson (Sabbatical)

1975-1980: Associate Professor of Physics
Department of Physics, York University

1972-1975: Assistant Professor of Physics
Department of Physics, York University

1970-1972: Research Fellow
Division of Engineering and Applied Physics, Harvard University

1969-1970: Research Assistant Kitt Peak National Observatory

HONOURS (AWARDS):

1. Patterson Medal, May, 2008, awarded for contributions to meteorology by Environment Canada.
2. Distinguished Research Professor, York University, April, 2004.
3. Elected to Royal Society of Canada, July, 2001.
4. Excellence in Research and Technology Development Award, Profs D. Hastie, P. Shepson, J. C. McConnell, from the Ontario Ministry of the Environment and Energy, November, 1994.
5. Group Achievement Award for “Voyager Science Investigator” from the National Aeronautics and Space Administration, September, 21, 1990.

MEMBERSHIPS:

American Geophysical Union
Division of Planetary Science of the American Astronomical Society
Canadian Meteorological and Oceanographic Society
American Meteorological Society
Air and Waste Management Association
European Geophysical Society

FIELDS OF INTEREST:

Atmospheric Chemistry and Dynamics
Physics of Planetary Atmospheres
Radiative Transfer
Atmospheric Pollution

LIST OF RESEARCH CONTRIBUTIONS

PUBLICATIONS IN REFEREED JOURNALS:

1. Hea, H, D. W. Tarasick W.K. Hocking, T.K. Carey-Smith, Y. Rochon, J. Zhang, P.A. Makar, M. Osman, J. Brook, M.D. Moran, D.B.A. Jones, C. Mihele, J. C. Wei, G. Osterman, P.S. Argall, **J. McConnell**, and M.S. Bourqui, Transport Analysis of Ozone Enhancement in Southern Ontario during BAQS-Met, *Atmos. Chem. Phys.*, 11, 2569–2583, 2011, doi:10.5194/acp-11-2569-2011
2. **Toyota, K., J. C. McConnell, A. Lupu, L. Neary, C. A. McLinden, A. Richter, R. Kwok, K. Semeniuk, J. W. Kaminski**, S.-L. Gong, **J. Jarosz**, M.P. Chipperfield, and C. E. Sioris, Analysis of reactive bromine production and ozone depletion in the Arctic boundary layer using 3-D simulations with GEM-AQ: inference from synoptic-scale patterns, *Atmos. Chem. Phys.*, 11, 3949-3979, doi:10.5194/acp-11-3949-2011, 2011.
3. **Toyota, K., J. C. McConnell, A. Lupu, L. Neary, C. A. McLinden, A. Richter, R. Kwok, K. Semeniuk, J. W. Kaminski**, S.-L. Gong, **J. Jarosz**, M.P. Chipperfield, and C. E. Sioris, *Supplement to* “Analysis of reactive bromine production and ozone depletion in the Arctic boundary layer using 3-D simulations with GEM-AQ: inference from synoptic-scale patterns”, *Atmos. Chem. Phys.*, 1-11, 2011.
4. **Semeniuk, K., V. I. Fomichev, J. C. McConnell**, C. Fu, S. M. L. Melo, and I. G. Usoskin, Middle atmosphere response to the solar cycle in irradiance and ionizing particle precipitation, *Atmos. Chem. Phys.*, 11, 1–33, 2011, www.atmos-chem-phys.net/11/1/2011/doi:10.5194/acp-11-1-2011.
5. Toohey, D., **J. C. McConnell**, L. Avallone, and W. F. J. Evans, Aviation and Chemistry and Transport Processes in the Upper Troposphere and Lower Stratosphere, *Bull. Amer. Met. Soc.*, 75, 2009. doi:10.1175/2009BAMS2841.1
6. **Beagley, S. R. C. D. Boone, V. I. Fomichev, J. J. Jin*, K. Semeniuk, J. C. McConnell**, P. F. Bernath, First global observations of groundstate CO₂ in the MLT by ACE: Observations and analysis using the extended CMAM, *ACP*, June, 2009.
7. **Lupu, A., J. W. Kaminski, L. Neary*, J. C. McConnell, K. Toyota**, C. P. Rinsland, P. F. Bernath, K. A. Walker, C. D. Boone, Y. Nagahama, and K. Suzuki, Hydrogen cyanide in the upper troposphere, *Atmos. Chem. Phys.*, 9, 4301-4313, 2009..
8. Ehrenreich, D.,A. Lecavelier des Etangs, G. Hébrard, J.-M. Désert, A. Vidal-Madjar, **J. C. McConnell**, C. D. Parkinson, and G. E. Ballester, New observations of the extended hydrogen exosphere of the extrasolar planet HD209458b, *Astron. Astrophys.*, 483, 933-937, DOI: 10.1051/0004-6361:200809460. 2008
9. Zhao, T. L., S. L. Gong, J. W. Bottenheim, **J. C. McConnell**, R. Sander, L. Kaleschke, A. Richter , A. Kerkweg, **K. Toyota** and L.A. Barrie, A three dimensional model study on the production of BrO and Arctic boundary layer ozone depletion, *J. Geophys. Res.*, 113, D24304, doi:10.1029/2008JD010631, 2008.
10. **Jin, J. J., K. Semeniuk, S. R. Beagley, V. Fomichev**, A. I. Jonsson, **J. C. McConnell**, J. Urban, D. Murtagh, G. L. Manney, B. Barret, P. Ricaud, E. Dupuy, C. D. Boone, P. F. Bernath, K. A. Walker, Comparison of CMAM simulations of CO (CO), nitrous oxide (N₂O), and methane (CH₄) with observations from Odin/SMR, ACE-FTS, and Aura/MLS, *ACP*, 8, 13,063-13,123, 2008.

11. **Semeniuk, K., J. C. McConnell, J. J. Jin, J R. Jarosz, C. D. Boone, and P. F. Bernath**, N₂O production by high energy auroral electron precipitation, *J. Geophys. Res.*, 113, D16302, doi:10.1029/2007JD009690, 2008.
12. Funke, B., M. Garcia-Comas, M. Lopez-Puertas, N. Glatthor, G. P. Stiller, T. Von Clarmann, **K. Semeniuk, and J. C. McConnell**, *Atmos. Chem. Phys.*, 8, 3805–3815, 2008.
13. **Kaminski, J. W., L. Neary***, J. Struzewska, **J. C. McConnell, A. Lupu, J. Jarosz, K. Toyota**, S. L. Gong, X. Liu, K. Chance and A. Richter, A Multiscale Air Quality Model – GEM-AQ: I – Evaluation of global gas phase results, *Atmos. Chem. Phys.*, 8, 3225-3281, 2008.
14. **McConnell, J. C and J.-J. Jin***, Stratospheric Ozone Chemistry, *Atmos. Ocean*, 46, 69-92, 2008. (Contribution to “Ozone Science 2007: a Canadian contribution to the twentieth anniversary of the Montreal Protocol. Environment Canada, editors, C.T. McElroy and D. R. Francis, 2008.)
15. Strong, K., and 39 authors, Validation of ACE-FTS N₂O Measurements, *ACPD*, January, 2008.
16. Dupuy, E., and 109 authors, Validation of ozone measurements from the Atmospheric Chemistry Experiment (ACE), *Atmos. Chem. Phys. Discuss.*, 8, 2513-2656, 2008
17. Grannas, A. M., and 34 authors, An overview of snow photochemistry: evidence, mechanisms and impacts, *Atmos. Chem. Phys.*, 7 (16), 4329-4373, 2007.
18. Melo, S., M. L., and 14 authors, Summertime stratospheric processes at northern mid-latitudes: Comparisons between MANTRA balloon measurements and the Canadian Middle Atmosphere Model, *ACP-discussions*, August, 2007.
19. Jiang, J., N. J. Livesey, H. Su., **L. Neary, and J. C. McConnell**, Upper tropospheric Asian Outflow to North America: Connecting surface emission, convective uplift and long-range transport of carbon monoxide, *Geophys. Res. Lett.*, July, 2007.
20. **Moudden*, Y. and J. C. McConnell**, Three-dimensional on-line chemical modeling in a Mars general circulation model, *Icarus*, 188, 18–34, 2007.
21. Rinsland, C. P., C. D. Boone, P. F. Bernath, E. Mahieu, R. Zander, G. Dufour, C. Clerbaux, . S. Turquety, L. Chiou, J. C. McConnell, L. Neary, and J. W. Kaminski, First space-based observations of formic acid (HCOOH): Atmospheric Chemistry Experiment Austral spring 2004 and 2005 southern hemisphere tropical-mid-latitude upper troposphere measurements, accepted for *Geophys. Res. Lett.*, 33, L23804, doi:10.1029/2006GL027128, 2006.
22. Jin, J.J., K. Semeniuk, G.L. Manney, A.I. Jonsson, S.R. Beagley, J.C. McConnell, C.P. Rinsland, C.D. Boone, K.A. Walker and P.F. Bernath, Denitrification in the Arctic winter 2004/2005: Observations from ACE-FTS, *Geophys. Res. Lett.*, 33, L19814, doi:10.1029/2006GL027687, 2006.
23. Nassar, R., P.F. Bernath, C.D. Boone, C. Clerbaux, P.F. Coheur, G. Dufour, L. Froidevaux, E. Mahieu, J.C. McConnell, S.D. McLeod, D.P. Murtagh, C.P. Rinsland, K. Semeniuk, R. Skelton, K.A. Walker, R. Zander, A global inventory of stratospheric chlorine in 2004, *J. Geophys. Res.*, 111, doi:10.1029/2006JD007073, 2006.
24. Jin J. J., K. Semeniuk, A. I. Jonsson, S. R. Beagley, J. C. McConnell, G. Dufour, R. Nassar, C. D. Boone, K. A. Walker, P. F. Bernath, C. P. Rinsland, and G. L. Manney, Severe Arctic Ozone Loss in the Winter 2004/2005: Observations from ACE-FTS, *Geophys. Res. Lett.*, 33, L15801, doi:10.1029/2006GL026752, 2006.
25. Prangé, R., T. Fouchet, R. Courtin, J. E. P. Connery, and J. C. McConnell, Latitudinal variation of Saturn photochemistry from spatially-resolved ultraviolet spectra, *Icarus*, 180, 379-392, 2006.

26. O'Neill, N. T., M. Campanelli, A. Lupu, S. Thulasiraman, J. S. Reid, M. Aube, L. Neary, J.W. Kaminski, J.C. McConnell, Optical evaluation of the GEM-AQ air quality model during the Quebec smoke event of 2002: performance criteria for extensive and intensive optical variables, *Atmos. Envir.*, 40, 3737-3749, 2006.
27. Griffin, R.E.M., V. Fioletov, and J.C. McConnell, Measurements of historical total ozone from the Chalonge-Divan stellar spectrum programme: I. A re-analysis of the 1953-72 data and a comparison with the simultaneous Dobson Arosa measurements, *J. Geophys. Res.*, 111, D12309, doi:10.1029/2005JD006476, 2006.
28. Dufour, G., R. Nassar, C. D. Boone, R. Skelton, K. A. Walker, P. F. Bernath, C. P. Rinsland, K. Semeniuk, J. J. Jin, J. C. McConnell, and G. L. Manney, Partitioning between the inorganic chlorine reservoirs, HCl and ClONO₂, during the Arctic winter 2005 derived from the ACE-FTS measurements, *Atmos. Chem. Phys.*, 6, 2355-2366, 2006.
29. Strong, K., G. Bailak, D. Barton, M. R. Bassford, R. D. Blatherwick, S. Brown, D. Chartrand, J. Davies, J. R. Drummond, J. R. Fogel, E. Forsberg, R. Hall, A. Jofre, J. W. Kaminski, J. Kusters, C. Laurin, J. C. McConnell, C. T. McElroy, C. A. McLinden, S. M. L. Melo, K. Menzies, C. Midwinter, F. J. Murcray, C. Nowlan, R. J. Olson, B. M. Quine, Y. Rochon, V. Savastiouk, B. Solheim, D. Sommerfeldt, A. Ullberg, S. Wechohlad, H. Wu, and D. Wunch, MANTRA - A Balloon Mission to Study the Odd-Nitrogen Budget of the Stratosphere, *Atmos.-Ocean*, 43 (4), 283-299, 2005.
30. Melo, S, O. Chiu, A. Garcia-Munoz, K. Strong, J. McConnell, T. Slanger, M. J. Taylor, R. P. Lowe, I. C. McDade; D. Huestis, Using airglow measurements to observe gravity waves in the Martian atmosphere, *Ad. Space Res.*, 38, 730-738, 2006.
31. Parkinson, C. D., J. C. McConnell, L. Ben Jaffel, A. Y.-T. Lee, Y. L. Yung, and E. Griffioen, Deuterium chemistry and airglow in the Jovian thermosphere, *Icarus*, 183, 451-470, 2006.
32. Moudden, Y., and J. C. McConnell, 2005, A new model for multiscale modelling of the Martian atmosphere, *J. Geophys. Res. (Planets)*, 110, E04001, doi:10.1029/2004JE002354.
33. Ricaud, P, and 44 others, Polar vortex evolution during the 2002 Antarctic major warming as observed by the ODIN satellite, *J. Geophys. Res.*, 110, D05301, doi:1029/2004JD005018, 2005.
34. Moudden, Y., J. C. McConnell, S. R. Beagley, M. A. Lopez-Valverde, M. Lopez-Puertas Meteorological Results From the Global Mars Multiscale Model at the Viking 1 Lander Site, *Advances in Space Research* 36 (2005) 2169-2175
35. Rinsland, C., P. F. Bernath, C. Boone, R. Nassar, K. Walker, J. C. McConnell, and L.Chou, Atmospheric Chemistry Experiment (ACE) Arctic stratospheric measurements of NO_x and long-lived tracers during February and March 2004: Impact of solar flares, *Geophys. Res. Lett.*, 32, L16S05, doi:10.1029/2005GL022425, 2005.
36. Semeniuk, K., J. C. McConnell, and C. Jackman, Simulation of the October-November 2003 solar proton event in the CMAM GCM: comparison with observations, *Geophys. Res. Lett.*, 32, L15S02, doi:10.1029/2005GL022392, 2005.
37. Jin, J.-J., K. Semeniuk, A. Jonsson, J. C. McConnell, S. R. Beagley, C. D. Boone, K. A. Walker, P. F. Bernath, C. Rinsland, E. Dupuy, and D. Murtagh, A comparison of co-located ACE-FTS and SMR stratospheric-mesospheric CO measurements during 2004 and comparison with a GCM, *Geophys. Res. Letts*, 32, L15S03, doi:10.1029/2005GL022433, 2005
38. Clerbaux, C., P.-F. Coheur, D. Hurtmans, B. Baret, M. Carleer, R. Colin, K. Semeniuk, J. C. McConnell, C. D. Boone, P. F. Bernath, Carbon monoxide distribution in the middle

- atmosphere and lower thermosphere from the ACE-FTS solar occultation measurements, accepted *Geophys. Res. Letts*, 32, L16S01, doi:10.1029/2005GL022394, 2005.
39. Bernath, P.F., C.T. McElroy, M.C. Abrams, C. D. Boone, M. Butler, C. Camy-Peyret, M. Carleer, C. Clerbaux, P.-F. Coheur, R. Colin, P. de Cola, M. de Maziere, J. R. Drummond, D. Dufour, W. F. J. Evans, H. Fast, D. Fussen, K. Gilbert, D.E. Jennings, E.J. Llewellyn, R. P. Lowe, E. Mahieu, J. C. McConnell, I. C. McDade, M. McHugh, S.D. McLeod, D. Michelangeli, C. Midwinter, R. Nassar, F. Nichitiu, C. P. Rinsland, Y.J. Rochon, K. Semeniuk, P. Simon, R. Skelton, J. J. Sloan, M.-A. Soucy, K. Strong, P. Tremblay, D. Turnbull, K. A. Walker, I. Walkty, D.A. Wardle, V. Wehrle, R. Zander and J. Zou, Atmospheric Chemistry Experiment (ACE): mission overview, *Geophys. Res. Letts*, 32, L15S01, doi:10.1029/2005GL022386, 2005.
 40. Rinsland, C., P. F. Bernath, C. Boone, R. Nassar, K. Walker, E. Mahieu, R. Zander, J. C. McConnell, and L.Chou, Trends of HF, HCl, CCl₂F₂, CCl₃F, CHClF₂, HFCFC-22 and SF₆ in the lower stratosphere from the Atmospheric Chemistry Experiment (ACE) and Atmospheric Trace Molecule Spectroscopy (ATMOS) measurements near 30°N latitude, *Geophys. Res. Letts*, 32, L16S03, doi:10.1029/2005GL022415, 2005.
 41. Garcia Munoz, A., J. C. McConnell, I. C. McDade and S. M. L. Melo, Airglow on Mars: the OH Meinel bands and the O₂ IR Atmospheric Band at 1.27 μm, *Icarus*, 176, 75-95, 2005.
 42. Fomichev V. I., C. Fu, J. de Grandpre, S. R. Beagley, V. P. Ogibalov, and J. C. McConnell, Model thermal response to minor radiative energy sources and sinks in the middle atmosphere, *J. Geophys. Res.*, 109, D19107, doi:10.1029/2004JD004892, 2004.
 43. Jonsson, A., J. de Grandpre, V. I. Fomichev, S. R. Beagley, and J. C. McConnell, Sensitivity of the middle atmosphere to doubling of CO₂ : Chemical analysis of the ozone radiative feedback, *J. Geophys. Res.*, 109, D24103, doi:10.1029/2004JD005093, 2004.
 44. Llewellyn, E. J., N.D. Lloyd, D.A. Degenstein, R.L. Gattinger, S.V. Petelina, A.E. Bourassa, J.T. Wiensz, E.V. Ivanov, I.C. McDade, B.H. Solheim, J.C. McConnell, C.S. Haley, C. von Savigny, C.E. Sioris, C.A. McLinden, E. Griffioen, J. Kaminski, W.F.J. Evans, E. Puckrin, K. Strong, V. Wehrle, R.H. Hum, D.J.W. Kendall, J. Matsushita, D.P. Murtagh, S. Brohede, J. Stegman, G. Witt, G. Barnes, W.F. Payne, L. Piché, K. Smith, G. Warshaw, D.-L. Deslauniers, P. Marchand, E.H. Richardson, R.A. King, I. Wevers, W. McCreath, E. Kyrölä, L. Oikarinen, G.W. Leppelmeier, H. Auvinen, G. Mégie, A. Hauchecorne, F. Lefèvre, J. de La Nöe, P. Ricaud, U. Frisk, F. Sjöberg, F. von Schéele, L. Nordh, The OSIRIS Instrument on the Odin Spacecraft, *Can. J. Phys.*, 82, 411-422, 2004.
 45. Lecavelier des Etangs, A., A. Vidal-Madjar, J. C. McConnell, and G. Hebrard, Atmospheric escape from hot-Jupiters, *Astron. Astrophys. Lett.*, 418, L1-L4, DOI:10.1051/0004-6361:20040106, 2004.
 46. Vidal-Madjar, A., J. -M. Desert, A. Lecavelier des Etangs, G. Hebrard, G. E. Ballester, D. Ehrenreich, R. Ferlet, J. C. McConnell, M. Mayor, and C. D. Parkinson, Detection of Oxygen and Carbon in the Upper Atmosphere of the Extrasolar Planet HD 209458b, *Astrophys. J. Lett.*, 604, L69-L72, 2004.
 47. von Savigny, C. C.S. Haley, C.E. Sioris, I.C. McDade, E. J. Llewellyn, D. Degenstein, W. F.J. Evans, R. L. Gattinger, E. Griffioen, E. Kyrola, N. D. Lloyd, J.C. McConnell, C.A. McLinden, G. Megie, D.P. Murtagh, B. Solheim, Stratospheric ozone profiles retrieved from limb scattered sunlight radiance spectra measured by the OSIRIS instrument on the Odin satellite, *Geophys. Res. Lett.*, 30 (14), 1755, doi:10.1029/2002GL016401, 2003.

48. Yang, R. J., A. G. Xia, D. V. Michelangeli, D. A. Plummer, L. Neary, J. W. Kaminski, and J. C. McConnell, Evaluating a Canadian regional air quality model using ground-based observations in North-Eastern Canada and United States, *J. Environ. Monit.*, 5, 40-46, 2003.
49. Sioris, C. E., C. S. Haley, C. A. McLinden, C. von Savigny, I. C. McDade, W. F. J. Evans, J. C. McConnell and E. J. Llewellyn, Stratospheric profiles of nitrogen dioxide observed by OSIRIS on the ODIN satellite, *J. Geophys. Res.*, in press, 2003.
50. Majeed, T., J. H. Waite, S. W. Bougher, G. R. Gladstone, R. V. Yelle, and J. C. McConnell, The ionospheres of the giant planets, *Ad. Space Res.*, XXX, February, 2003.
51. Strong, K., B.M. Joseph, R. Dosanjh, I.C. McDade, McLinden, C.A., J.C. McConnell, J. Stegman, D.P. Murtagh, and E. J. Llewellyn, Retrieval of vertical concentration profiles from OSIRIS UV-Visible limb spectra, *Can. J. Phys.*, 80, 409-434, 2002
52. Jonsson, A. J. de Grandpre and J. C. McConnell, A comparison of mesospheric temperatures from the Canadian Middle Atmosphere Model and HALOE observations : zonal mean and signature of the solar diurnal tide, *Geophys. Res. Lett.*, 29, 10.1029/2001GL014476, 2002.
53. Kaminski, J. W., D. A. Plummer, L. Neary, J. C. McConnell, J. Struzewska, and L. Loboeki, First application of MC2-AQ to multiscale air quality modelling over Europe, *J. Phys. Chem. Earth*, 24 August, 8 pages, 2002.
54. Murtagh, D., U. Frisk, F. Merino, M. Ridal, A. Jonnson, J. Stegman, G. Witt, P. Eriksson, C. Jimenez, G. Megie, J. de Noe, P. Ricaud, P. Baron, J. R. Pardon, A. Hauchcorne, E. J. Llewellyn, D.A. Degenstein, R.L. Gattinger, N.D. Lloyd, W.F.J. Evans, I.C. McDade, C.S. Haley, C. Sioris, C. von Savigny, B.H. Solheim, J.C. McConnell, K. Strong, E.H. Richardson, G.W. Leppelmeier, E. Kyrola, H.Auvinen and L. Oikarinen, An overview of the ODIN atmospheric mission, *Can. J. Phys.*, 80, 309-319, 2002.
55. McLinden, C.A., J.C. McConnell, K. Strong, I.C. McDade, et al., The impact of the OSIRIS grating efficiency on total radiance and trace gas retrievals, *Can. J. Phys.*, 80, 469-481, 2002.
56. McLinden, C.A., J.C. McConnell, E. Griffioen, C.T. McElroy, A vector radiative transfer model for the ODIN/OSIRIS project, *Can. J. Phys.*, 80, 375-393, 2002.
57. Plummer, D. A., J. C. McConnell, J. Drummond, J. Narayan, V. Young, D. R. Hastie, Assessment of emissions data for the Toronto region using aircraft-based measurements and an air quality model, *Atmos. Environ.*, 35, 6543-6463, 2001.
58. Fomichev, V. I., W. E. Ward, S. R. Beagley, C. McLandress, J. C. McConnell, N. A. McFarlane, and T. G. Shepherd, The extended Canadian middle atmosphere model: Zonal-mean climatology and physical parameterizations, *J. Geophys. Res.*, 107, 10.1029/2001-JD000479, 2002.
59. Rego, D. J. T. Clarke, L. Ben Jaffel, G. E. Ballester, R. Prange, and J. C. McConnell, The analysis of the H Lyman α emission line profile from Jupiter's aurora, *Icarus*, 150, 234-243, 2001.
60. de Grandpré, J., S.R. Beagley, V.I. Fomichev, E. Griffioen, J.C. McConnell, A.S. Medvedev, and T.G. Shepherd, An ozone climatology using interactive chemistry: Results from the Canadian Middle Atmosphere Model, *J. Geophys. Res.*, 105, 26,475-26,491, 2000.
61. Chartrand, D.J., and J.C. McConnell, Heterogeneous chemistry and the O₃ budget in the lower mid-latitude stratosphere, *J. Atmos. Chem.*, 35, 109-149, 2000.
62. Parkinson, C.D., E. Griffioen, J.C. McConnell, J. Ben Jaffel, A. Vidal-Madjar, G.R. Gladstone, J. Clark, Estimates of atomic deuterium abundances and Lyman- α airglow in the thermosphere of Jupiter, *Geophys. Res. Lett.*, 26, 3177-3180, 1999.

63. Bouchet, V., R. Laprise, E. Torlaschi, and J.C. McConnell, Studying ozone climatology with the Canadian Regional Climate Model, Part I: Model description and validation, *J. Geophys. Res.*, 104, 30,351-30,371, 1999.
64. Bouchet, V., R. Laprise, E. Torlaschi, J.C. McConnell, and D.A. Plummer, Studying ozone climatology with the Canadian Regional Climate Model, Part II: Climatology, *J. Geophys. Res.*, 104, 30,373-30,385, 1999.
65. Sharma S., L.A. Barrie, D. Plummer, J.C. McConnell, P.C. Brickell, M. Levasseur, M. Gosselin, and T.S. Bates, Flux estimation of dimethyl sulphide around North America, *J. Geophys. Res.*, 104, 21,327-21,342, 1999.
66. Majeed, T., J.C. McConnell and G.R. Gladstone, A model analysis of Galileo electron densities on Jupiter, *Geophys. Res. Lett.*, 26, 2335-2338, 1999.
67. Chartrand, D.J., J. de Grandpré, and J.C. McConnell, An Introduction to Stratospheric Chemistry, *Atmos. Ocean*, 37, 309-367, 1999.
68. McElroy, C.T., C.A. McLinden, and J.C. McConnell, Evidence for the presence of BrO in the free troposphere during the Arctic polar sunrise, *Nature*, 397, 338-341, 1999.
69. McLinden, C.A., J.C. McConnell, C.T. McElroy, E. Griffioen, and J.C. Wilson, Observations of stratospheric aerosol using CPFM polarized limb radiances, *J. Atmos. Sci.*, 56, 233-240, 1999.
70. Parkinson, C.D., E. Griffioen, J.C. McConnell, G.R. Gladstone and B.R. Sandel, He 584 A° Dayglow at Saturn: A Reassessment, *Icarus*, 133, 210-220, 1998.
71. Chartrand, D.J. and J.C. McConnell, Evidence for HBr production due to minor channel branching at mid-latitudes, *Geophys. Res. Lett.*, 25, 55-58, 1998.
72. de Grandpré, J., J.W. Sandilands, J.C. McConnell, S.R. Beagley, P. Croteau, M.Y. Danilin, Canadian Middle Atmosphere Climate Model: Preliminary Chemistry Results, *Atmos. Ocean*, 35, 385-431, 1997.
73. McLinden, C.A., J.C. McConnell, E. Griffioen, C.T. McElroy, and L. Pfister, Estimating the wavelength-dependent ocean albedo under clear-sky conditions using NASA ER-2 spectroradiometer measurements, *J. Geophys. Res.*, 102, 18,801-18,811, 1997.
74. Sandilands, J.W. and J.C. McConnell, Evaluation of a Reduced-Jacobian Numerical Chemical Solver, *J. Geophys. Res.*, 102, 19,703-19,087, 1997.
75. McLinden, C.A., D.J. Chartrand, E. Griffioen, J.C. McConnell, and C.T. McElroy, The impact of non-Lambertian wavelength-dependent reflecting surfaces on stratospheric radiation and photochemistry, *J. Atmos. Chem.*, 26, 29-64, 1997.
76. Tang, T. and J.C. McConnell, Model simulation of the autocatalytic release of bromine during arctic polar sunrise ozone depletion, *Geophys. Res. Lett.*, 23, 2633-2636, 1996.
77. Kaminski, J.W., J.C. McConnell, and B.A. Boville, A study of stratospheric chemistry using a 3-D global chemical transport model -- I mid-latitude, *J. Geophys. Res.*, 101, 28, 731-28,751, 1996.
78. Majeed, T. and J.C. McConnell, Voyager electron density measurements on Saturn: analysis with a time dependent ionospheric model, *J. Geophys. Res.*, 101, 7589-7598, 1996.
79. Plummer, D., J.C. McConnell, P. Shepson, D. Hastie, and H. Niki, Modelling of ozone formation at a rural site in Southern Ontario, *Atmos. Envir.*, 30, 2195-2217, 1996.
80. Shepherd, M.G., J.C. McConnell, W.K. Tobiska, G.R. Gladstone, S. Chakrabarti, G. Schmidtke, Inference of atomic oxygen concentration from remote sensing of optical aurora, *J. Geophys. Res.*, 100, 17,415-17,428, 1995.

81. Vervack, R.J., B.R. Sandel, G.R. Gladstone, J.C. McConnell and C.D. Parkinson, Jupiter's He 584Å dayglow: New results, *Icarus*, **114**, 163-173, 1995.
82. Danilin, M. Yu., and J.C. McConnell, Stratospheric effects of bromine activation on/in sulfate aerosol, *J. Geophys. Res.*, **100**, 11237-11243, 1995.
83. Danilin, M. Yu., and J.C. McConnell, Heterogeneous reactions in a stratospheric box-model: A sensitivity study, *J. Geophys. Res.*, **99**, 25681-25696, 1994.
84. Griffioen, E., J.C. McConnell, G.S. Shepherd, A Rapidly Convergent Lambda Operator Method for Solving Resonance Line Scattering in Planetary Atmospheres: I – The One-Dimensional Slab, *J. Geophys. Res.*, **99**, 21383-21396, 1994
85. Tobiska, W.K., G.R. Gladstone, S. Chakrabarti, M.G. Shepherd, J.C. McConnell, R. Link, G. Schmidtke, and G. Stasek, FUV-Visible Photometric Imaging of Aurorae, *J. Geophys. Res.*, **98**, 17525--17535, 1993.
86. McConnell, J.C., G.S. Henderson, L. Barrie, J. Bottenheim, H. Niki, E.M.J. Templeton, A new mechanism for Arctic O₃ depletion at polar sunrise: Heterogeneous photochemical inorganic bromine production, *Nature*, **355**, 150-152, 1992.
87. McConnell, J.C., W.F.J. Evans, and E.M.J. Templeton, Model Simulation of Chemical Depletion of Arctic Ozone during the winter of 1989, *J. Geophys. Res.*, **96**, 10930-10933, 1991.
88. G.S. Henderson, J.C. McConnell, S.R. Beagley, and W.F.J. Evans, Polar Ozone Depletion: an update, *Can. J. Physics*, **69**, 1110-1122, 1991.
89. Griffioen, E., J.C. McConnell, J.S. Murphree, G.G. Shepherd, and L.L. Cogger, Viking UV cameras: Calibration using model calculations and long wavelength light leakage, *Can. J. Physics*, **69**, 1154-1165, 1991.
90. J.W. Kaminski, and J.C. McConnell, A note on the enhancement of J values in optically thick scattering atmospheres, *Can. J. Phys.*, **69**, 1166-1174, 1991.
91. Majeed, T., and J.C. McConnell, The upper ionospheres of Jupiter and Saturn, *Planet Space Sci.*, **39**, 1715-1732, 1991.
92. McElroy, C.T., J.B. Kerr, D.I. Wardle, L.J.B. McArthur, G.M. Shah, M. Garneau, S.G. MacLean, R. Thirsk, J.A. Davies, W.F.J. Evans, R.W. Nicholls, J.C. McConnell and M. Cann, SPEAM-I (sunphotometer Earth atmosphere measurement) observations of high-altitude ozone from STS 41--G, *Can. J. Phys.*, **69**, 1123-1127, 1991.
93. Ben-Jaffel, L., R. Prang'e, C. Emerich, A. Vidal-Madjar and J.C. McConnell, A Model for the Disc Lyman Alpha Emission of Uranus, *J. Geophys. Res.*, **96**, 9781-9791, 1991.
94. Majeed, T., J.C. McConnell, and R.V. Yelle, Vibrationally excited H₂ in the Outer Planets: Role of the Fluorescence Source, *Planet Space Sci.*, **39**, 1591-1606, 1991.
95. Majeed, T., J.C. McConnell, D.F. Strobel, and M.E. Summers, The Ionosphere of Triton, *Geophys. Res., Lett.*, **17**, 1721-1724, 1990.
96. Parkinson, C.D., J.C. McConnell, B.R. Sandel, R.V. Yelle, and A.C. Broadfoot, He 584 Å dayglow at Neptune, *Geophys. Res., Lett.*, **17**, 1709-1721, 1990.
97. McConnell, J.C., E.M.J. Templeton, G.S. Henderson, and W.F.J. Evans, Potential effects of halocarbons on stratospheric ozone, *Atmos--Oceans*, **28**, 177-188, 1990.
98. Henderson G.S., J.C. McConnell, and W.F.J. Evans, Model studies of the oxidation of light hydrocarbons in the troposphere and stratosphere, *Atmos--Oceans*, **28**, 48-89, 1990.
99. Henderson G.S., J.C. McConnell, and W.F.J. Evans, The effects of initial active chlorine concentrations on the Antarctic ozone spring depletion, *J. Geophys. Res.*, **95**, 1899-1908, 1990.
100. Holubec, A., and J.C. McConnell, An accurate approximation of Chandrasekar's H-function, *Astron. Astrophys.*, **227**, 649-652, 1990.

101. Broadfoot, A.L., S.K. Atreya, J.L. Bertaux, J.E. Blamont, A.J. Dessler, T.M. Donahue, W.T. Forrester, D.T. Hall, F. Herbert, J.B. Holberg, D.M. Hunten, V.A. Krasnopolsky, S. Linick, J.I. Lunine, J.C. McConnell, H.W. Moos, B.R. Sandel, N.M. Schneider, D.E. Shemansky, G.R. Smith, D.F. Strobel, R.V. Yelle, Ultraviolet Spectrometer Observations of Neptune and Triton, *Science*, **246**, 1459-1466, 1989.
102. McConnell, J.C., C.D. Parkinson, L. Ben-Jeffel, C. Emmerich, R. Prangé, and A. Vidal-Madjar, H Lyman-alpha emission at Neptune: Voyager prediction, *Astron. Astrophys.*, **225**, L9-L12, 1989.
103. Henderson, G.S., J.C. McConnell and W.F.J. Evans, A comparison of model calculations and measurements of acetone in the troposphere and stratosphere, *J.Atmos. Chem.*, **8**, 277--298, 1989.
104. Yelle, R.V., J.C. McConnell, D.F. Strobel, and L.R. Doose, The far ultraviolet spectrum of Uranus: Results from the Uranus encounter, *Icarus*, **77**, 439--456, 1989.
105. Link, R., S. Chakrabarti, G.R. Gladstone and J.C. McConnell, A Reanalysis of Rocket Measurements of the Ultraviolet Dayglow, *J. Geophys. Res.*, **93**, 14631--14648, 1988.
106. Link, R., S. Chakrabarti, G.R. Gladstone and J.C. McConnell, An analysis of satellite observations of the OI EUV dayglow, *J.Geophys. Res.*, **93**, 2693-2714,1988.
107. Yelle, R.V., J.C. McConnell, B.R. Sandel, and A.L. Broadfoot, The dependence of electroglow on the solar flux, *J. Geophys. Res.*, **92**, 15100--15124, 1987.
108. Henderson, G.S., W.F.J. Evans, J.C. McConnell and E. Templeton, A numerical model for one-dimensional simulation of stratospheric chemistry, *Atmos. Oceans*, **25**, 427--459, 1987.
109. Gladstone, G.R., R. Link, S. Chakrabarti, and J.C. McConnell, Modelling of the OI 989 Å to 1173 Å Ratio in the Terrestrial Dayglow, *J. Geophys. Res.*, **92**, 12445-12450, 1987.
110. McConnell, J.C. and T. Majeed, H₃⁺ in the Jovian Ionosphere, *J. Geophys. Res.*, **92**, 8570—8578, 1987.
111. Evans, W.F.J., B.W. Boville, J.C. McConnell and G.S. Henderson, The simulation of antarctic ozone with chemical and dynamical effects, *Geophys. Res. Lett.*, **13**, 1323—1326, 1986.
112. Broadfoot, A.L., F. Herbert, J.B. Holberg, D.M. Hutton, S. Kumar, B.R. Sandel, D.E. Shemansky, G.R. Smith, R.V. Yelle, D.F. Strobel, H.W. Moos, T.M. Donahue, S.K. Atreya, J.L. Bertaux, J.E. Blamont, J.C. McConnell, A.J. Dessler, S. Linick and R. Springer, Ultraviolet Spectrometer Observations of Uranus, *Science*, **233**, 74—79, 1986.
113. Evans, W.F.J., J.B. Kerr, C.T. McElroy, G. Shah, D.I. Wardle, R.W. Nicholls, M. Cann, J.C. McConnell, J. Danes, M. Garneau, and S. Maclean, The SPEAM sunphotometer experiment on mission 41--G., *Canad. Aeron. Space J.*, **31**, 240-248, 1985.
114. Shepherd, G.G., W.A. Gault, R.A. Koehler, J.C. McConnell, K.V. Paulson, E.J. Llewellyn, C.D. Anger, L.L. Cogger, J.W. Haslett, D.R. Moorcroft and R.L. Gattinger, Optical Doppler Imagery of the aurora borealis, *Geophys. Res. Lett.*, **11**, 1003—1066, 1984.
115. Ridley, B.A., S.H. Liu, D.R. Hastie, H.I. Schiff, J.C. McConnell, W.F.J. Evans, C.T. McElroy, J.B. Kerr, H. Fast, R.S. O'Brien, , Stratospheric and Nitrogen Measurements of HNO₃, NO, NO₂ and O₃ near 54°N in Winter, *J. Geophys. Res.*, **84**, 4797—4820, 1984.
116. Link, R., J.C. McConnell and G.G. Shepherd, 1984, Comment on “Neutral and Ion Composition in the Thermosphere,” by D.G. Torr, *Rev. Geophys. Space Phys.*, **22**, 98.
117. Link, R., J.C. McConnell and G.G. Shepherd, 1983, An Analysis of the Spacial Distribution of Dayside Cleft Optical Emissions, *J. Geophys. Res.*, **88**, 10145--10162.

118. Smith, G.R., D.E. Shemansky, B.R. Sandel, J.B. Holberg, A.L. Broadfoot and J.C. McConnell, 1983, Saturn's Upper Atmosphere from the Voyager 2 EUV Solar and Stellar Occultations, *J. Geophys. Res.*, **88**, 8667--8678.
119. McConnell, J.C., J.B. Holberg, G.R. Smith, B.R. Sandel, D.E. Shemansky and A.L. Broadfoot, 1982, A New Look at the Ionosphere of Jupiter in Light of the UVS Occultation Results, *Planet. Space Sci.*, **30**, 151--167.
120. Sandel, B.R., J.C. McConnell and D.F. Strobel, 1982, Eddy Diffusion at Saturn's Homopause, *Geophys. Res. Lett.*, **9**, 1077--1080.
121. Evans, W.F.J., J.B. Kerr, C.T. McElroy, R.S. O'Brien, J.C. McConnell, 1982, Measurements of NO₂ and HNO₃ during a stratospheric warming at 54° N in February 1979, *Geophys. Res. Lett.*, **9**, 493--496.
122. Evans, W.F.J., C.T. McElroy, J.B. Kerr and J.C. McConnell, 1982, Simulation of the October 23, 1980 Stratoprobe Flight, *Geophys. Res. Lett.*, **9**, 223--226.
123. Sandel, B.R., D.E. Shemansky, A.L. Broadfoot, J.B. Holberg, G.R. Smith, J.C. McConnell, D.F. Strobel, S.K. Atreya, T.M. Donahue, H.W. Moos, D.M. Hunten, R.B. Pomphrey, and S. Linick, 1982, Extreme Ultraviolet Observations from Voyager 2 Encounter with Saturn, *Science*, **215**, 548--553.
124. Evans, W.F.J., C.T. McElroy, J.B. Kerr and J.C. McConnell, 1981, Simulation of Nitrogen constituent measurements from the August 28, 1976, Stratoprobe III flight, *J. Geophys. Res.*, **86**, 12066--12070.
125. Broadfoot, A.L., B.R. Sandel, D.E. Shemansky, J.B. Holberg, G.T. Smith, D.F. Strobel, J.C. McConnell, S. Kumar, D.M. Hunten, S.K. Atreya, T.M. Donahue, H.W. Moos, J.L. Bertaux, J.E. Blamont, R.B. Pomphrey and S. Linick, 1981, Extreme Ultraviolet Observations from Voyager 1 Encounter with Saturn, *Science*, **212**, 206--211.
126. Broadfoot, A.L., B.R. Sandel, D.E. Shemansky, J.C. McConnell, G.R. Smith, J.B. Holberg, S.K. Atreya, T.M. Donahue, D.F. Strobel and J.L. Bertaux, 1981, Overview of the Voyager ultraviolet spectrometry results through Jupiter encounter, *J. Geophysical Res.*, **86**, 8259--8284.
127. McConnell, J.C., B.R. Sandel and A.L. Broadfoot, 1981, Voyager UV Spectrometer Observations of He 584 Å Dayglow at Jupiter, *Planet. Space Sci.*, **29**, 283--292.
128. Link, R., J.C. McConnell, and G.G. Shepherd, 1980, A self-consistent evaluation of the rate constants for the production of the OI 6300 Å airglow, *Planet. Space Sci.*, **29**, 589--594.
129. McConnell, J.C., B.R. Sandel and A.L. Broadfoot, 1980, Airglow from Jupiter's Night Side and Crescent: Ultraviolet Spectrometer Observations from Voyager 2, *Icarus*, **43**, 589--594.
130. Sandel, B.R., D.E. Shemansky, A.L. Broadfoot, J.L. Bertaux, J.E. Blamont, M.J.S. Belton, J.M. Ajello, J.B. Holberg, S.K. Atreya, T. M. Donahue, H.W. Moos, D.F. Strobel, J.C. McConnell, A. Dalgarno, R. Goody, M.B. McElroy and P.Z. Takacs, 1979, Extreme Ultraviolet Observations from Voyager 2 Encounter with Jupiter, *Science*, **206**, 962--966.
131. Broadfoot, A.L., M.J.S. Belton, P.Z. Takacs, B.R. Sandel, D.E. Shemansky, J.B. Holberg, J.M. Ajello, S.K. Atreya, T.M. Donahue, H.W. Moos, J.L. Bertaux, J.E. Blamont, D.F. Strobel, J.C. McConnell, A. Dalgarno, R. Goody and M.B. McElroy, 1978, Extreme Ultraviolet Observations from Voyager 1 Encounter with Jupiter, *Science*, **199**, 174--177.
132. Kerr, J.B., W.F.J. Evans and J.C. McConnell, 1978, The Effects of NO₂ Changes at Twilight on Tangent Ray NO₂ Measurements, *Geophys. Res. Lett.*, **12**, 577--59.
133. McConnell, J.C. and H.I. Schiff, 1978, Methyl Chloroform: Impact on Stratospheric Ozone, *Science*, **199**, 174--177.

134. Broadfoot, A.L., B.R. Sandel, D.E. Shemansky, S.K. Atreya, T.M. Donahue, H. W. Moos, J-L. Bertaux, A. Dalgarno, R. Goody, M.B. McElroy, Y.L. Yung, J.E. Blamont, J.M. Ajello, D.F. Strobel, J.C. McConnell, 1977, Ultraviolet Spectrometer Experiments for the Voyager Mission, *Space Sci. Rev.*, **20**, 183--205.
135. Ridley, B.A., M. McFarland, J.T. Bruin, H.I. Schiff and J.C. McConnell, 1977, Sunrise Measurements of Stratospheric Nitric Oxide, *Can. J. Phys.*, **55**, 212--221.
136. Ridley, B.A., J.T. Bruin, H.I. Schiff and J.C. McConnell, 1976, Altitude Profile and Sunset Decay Measurements of Stratospheric Nitric Oxide, *Atmospheres*, **14**, 180--188.
137. Evans, W.J.F., J.B. Kerr, D.I. Wardle, J.C. McConnell, B.A. Ridley and H.I. Schiff, 1976, Intercomparison of NO, NO₂, and HNO₃ Measurements with Photochemical Theory, *Atmospheres*, **14**, 189--198.
138. McConnell, J.C., 1974, Uncertainties in Stratospheric--Mesospheric Modelling, *Can. J. Chem.*, **52**, 1625--1634.
139. McConnell, J.C., 1973, Atmospheric Ammonia, *J. Geophys. Res.*, **78**, 7812--7821.
140. McElroy, M.B., S.C. Wofsy, J.E. Penner and J.C. McConnell, 1973, Atmospheric Ozone: Possible Impact of Stratospheric Aviation, *J. Atmos. Sci.*, **31**, 287--303.
141. McConnell, J.C. and M.B. McElroy, 1973, Odd Nitrogen in the Atmosphere, *J. Atmos. Sci.*, **30**, 1465--1480.
142. Schiff, H.I. and J.C. McConnell, 1973, Possible Effects of a Fleet of Supersonic Transports on the Stratospheric Ozone Shield, *Rev. Geophys. Space Phys.*, **11**, 925--934.
143. Wofsy, S., J.C. McConnell and M.B. McElroy, 1972, Atmospheric CH₄, CO and CO₂, *J. Geophys. Res.*, **77**, 4477--4493.
144. McConnell, J.C., M.B. McElroy and S. Wofsy, 1971, Natural Sources of Atmospheric CO, *Nature*, **233**, 187--188.
145. McElroy, M.B. and J.C. McConnell, 1971, Nitrous Oxide: A Natural Source of Stratospheric NO, *J. Atmos. Sci.*, **28**, 1095--1098.
146. McElroy, M.B. and J.C. McConnell, 1971, Dissociation of CO₂ in the Martian Atmosphere, *J. Atmos. Sci.*, **28**, 879--884.
147. McConnell, J.C. and M.B. McElroy, 1971, Atomic Carbon in the Atmosphere of Mars and Venus, *J. Geophys. Res.*, **75**, 6674--6690.
148. McConnell, J.C. and M.B. McElroy, 1970, Excitation Processes for Martian Dayglow, *J. Geophys. Res.*, **75**, 7290--7293.
149. McConnell, J.C. and B.L. Moiseiwitsch, 1969, Charge Transfer Cross Sections and Mobilities for Hg Ions in Atomic Mercury, *J. Phys. B*, **2**, 821--830.
150. McConnell, J.C. and B.L. Moiseiwitsch, 1969, The Excitation of the 6¹P and 6³P States of Mercury by Electron Impact, *J. Phys. B* **1**, 406--413.

ARTICLES SUBMITTED TO REFEREED JOURNALS

1. Glatthor, N., M. Höpfner, K. Semeniuk, A. Lupu, P. I. Palmer, J. C. McConnell, J. W. Kaminski, T. von Clarmann, G. P. Stiller, B. Funke, S. Kellmann, A. Linden, and A. Wiegler, The Australian bush fires of February 2009: MIPAS observations and GEM-AQ model results, submitted to ACPD, April, 2012.

OTHER REFEREED PUBLICATIONS:

1. European Space Agency, 2008. PREMIER: Candidate Earth Explorer Core Missions -Reports for Assessment, ESA SP-1313(5), Mission Science Division, ESA-ESTEC, Noordwijk, The Netherlands, ISSN 0379-6566, 121 pp., http://esamultimedia.esa.int/docs/SP1313-5_PREMIER.pdf
2. Brasseur, Guy, Lead Coordinating author, A Report on the Way Forward Based on the Review of Research Gaps and Priorities, Chapter IV Chemistry and Transport Processes in the Upper Troposphere and Lower Stratosphere, Principal Authors: J. McConnell, D. Toohey, Coordinating Authors: I. Isaksen, J. Rodriguez, Lead Authors: L. Avallone, W. Evans, J. Kaminski, A. Lupu, L. Neary, M. Ross, K. Semeniuk, K. Toyota, Aviation and climate change Initiative(ACCRI), August, 2008.
3. McConnell, J. C., W. Evans, J. Kaminski, A. Lupu, L. Neary, K. Semeniuk, K. Toyota, UT/LS chemistry and transport, Subject specific white paper (SSWP) for ACCRI, FAA, January, 2008.
4. Steyn, D., B. Ainslie, J.W. Kaminski, J.C. McConnell, A. Martilli, and L. Neary, The use of meso-scale atmospheric circulation types as a strategy for modeling long-term trends in air pollution, ITM, September, 2007.
5. Wuebbles, D. (editor), A report of findings and recommendations: workshop on the impacts of aviation on climate change, Boston, 7-9 June, 2006 (JCMcC was contributor).
6. Bernath, P., C. Boone, K. Walker, S. McLeod, M.-A. Soucy, J. Giroux, H. Buijs, J. Drummond, Y. Mouden, J. C. McConnell, John Caldwell, C. T. McElroy, R. Colin, P. Simon, ATMOSPHERIC CHEMISTRY EXPLORER FOR MARS, ACE-M, extended abstract.
7. Akingunola, A., and J. C. McConnell, Modeling Martian Water Cycle with Modified GM3, Second workshop on Mars atmosphere modelling and observations, Granada, Spain, February 27 - March 3, 2006. extended abstract.
8. Akingunola, A. and J. C. McConnell, Boundary Layer/Soil Model For Global Mars Multiscale Model (GM3), Second workshop on Mars atmosphere modelling and observations, Granada, Spain, February 27 - March 3, 2006. extended abstract.
9. Rosso, A., Y. Mouden, and J. C. McConnell, Comparison of atmospheric temperatures obtained through Mars Global Surveyor Radio Science and the Global Mars Multiscale Model, Second workshop on Mars atmosphere modelling and observations, Granada, Spain, February 27 - March 3, 2006. extended abstract.
10. Mouden, Y., and J. C. McConnell, Description of the Global Mars Multiscale Model, Second workshop on Mars atmosphere modelling and observations, Granada, Spain, February 27 - March 3, 2006. extended abstract.
11. Mouden, Y., and J. C. McConnell, 3D chemistry on Mars using the Global Multiscale Model Second workshop on Mars atmosphere modelling and observations, Granada, Spain, February 27 - March 3, 2006. extended abstract.
12. Kaminski, J. W., J. Struzewska, L. Neary, A. Lupu and J. C. McConnell, Multiscale air quality modelling – progress and challenges, proceedings of ITM, 2006.
13. W.E. Ward, W.A. Gault, N. Rowlands, S. Wang, G.G. Shepherd, I.C. McDade, J.C. McConnell, D. Michelangeli and J. Caldwell, An imaging interferometer for satellite observations of wind and temperature on Mars, the Dynamics Atmosphere Mars Observer (DYNAMO), In Proceedings of SPIE Vol 4833, Applications of Photonics Technology V., eds. R.A. Lessard, G.A. Lampropoulos, G.W. Schinn, 226-236, 2002.

14. J. R. Drummond, V. J. Hipkin, B. Tolton, K. Strong, B. M. Quine, B. A. Rivard, J. C. Caldwell, J.C. McConnell, G.R. Davis, F.Chateauneuf, J.Hackett A Canadian Atmospheric and Geological Mission to F, Proceeding of IGARSS, 24-28 June, Toronto, 2002
15. McConnell, J. C., A Review of planetary exploration and a look to the future, Phys. Can., Sept, 255-270, 2001.
16. Contributed to the ESA document, ACECHEM-Atmospheric Chemistry Explorer for Chemistry and Climate, Reports for assessment, The Five Candidate Earth Explorer Core Missions, SP-1257 (4), 105pp, 2001.
17. Kaminski, J. W., J. C. McConnell, D. A. Plummer, L. Neary, Application of MC2-AQ to Multiscale Air Quality Modelling, Proceedings of the Quadrennial Ozone Symposium, Sapporo 2000, 3-8 July, pp 457-458, (pub NASDA), 2000.
18. Strong, K., P. Bernath, J.R. Drummond, H. Fast, J.C. McConnell, C.T. McElroy, B.M. Quine, T.G. Shepherd, B.H. Solheim, D. Sommerfeldt, P.F. Fogal, F.J. Murcray, and F. Goutail. The MANTRA Campaigns . Studying the Stratosphere from Balloons. International Geoscience and Remote Sensing Symposium (IGARSS), Toronto, Canada, June 24-28, 2002. Proceedings of IGARSS 2002, IEEE, Piscataway, NJ, USA, pp. 3136-3138, 2002.
19. Kaminski, J. W., J. C., McConnell, P. Gauthier, G. Brunet, S. Pellerin, Tropospheric Chemical Modelling and MOPITT data assimilation, Proceedings of the Quadrennial Ozone Symposium, Sapporo 2000, 3-8 July, pp 459-460, (pub NASDA), 2000.
20. Kaminski, J. W., J. C., McConnell, P. Gauthier, G. Brunet, S. Pellerin, Stratospheric Chemical Modelling and Data Assimilation of ODIN Measurements, Proceedings of the Quadrennial Ozone Symposium, Sapporo 2000, 3-8 July, pp 461-462, (pub NASDA), 2000.
21. Shepherd, G. G., D. Steenbergen, J. C. McConnell, C.T. McElroy, R. Michaud, Implementation Plan for the CSA Atmospheric Environment Element of the New Canadian Space Plan, March, 2000.
22. A review of NASA's "Atmospheric Effects of Stratospheric Aircraft" Project, by National Research Council's Panel on Atmospheric Effects of Aviation, 1999. Was panel member and contributed.
23. Isaksen, I., C. Jackman, J.C. McConnell, and 6 other Lead Authors, Chapter 4, "Modeling the chemical composition of the future atmosphere", 121-163, in IPCC special report 'Aviation and the Global Atmosphere', J.E. Penner, D.H. Lister, D.J. Griggs, D.J. Dokkens, M. McFarland, eds., pp 373, Camb. U. Press, 1999.
24. Kaminski, J. W., J. C. McConnell, P. Gauthier, G. Brunet, S. Pellerin, Towards an operational assimilation of ODIN ozone data in the Canadian weather forecast model with chemistry, Third WMO Symposium on Data Assimilation in Meteorology and Oceanography, Quebec City, 7-11 June 1999, July 1999.
25. Brunet, G., P.-A. Michelangeli, S. Pellerin, J. C. McConnell, J. W. Kaminski, Estimating the temporal variability of ozone and its sources in the Canadian ozone 3d-VAR data assimilation system, Third WMO Symposium on Data Assimilation in Meteorology and Oceanography, Quebec City, 7-11 June 1999, submitted July, 1999.
26. Kaminski, J. W, J. C. McConnell, G. Brunet, P. Gautier, and S. Pellerin, Assimilation of Odin ozone data in the CMC weather forecast model with chemistry: Preliminary Results, SODA Workshop on Chemical Data Assimilation Proceedings, KNMI, de Bilt, 9-10 December, 1998, pp37--42, KNMI pub series , 188, 1999.
27. Ben Jaffel, L., A. Vidal-Madjar, G. R. Gladstone, J. C. McConnell, C. Emmerich, R. Prangé, and J. T. Clarke, GHRS detection of the fossil deuterium of Jupiter, in ``The scientific Impact

- of the GHRS", ASP Conf. Series; Vol. 143, 366-369, eds J. C. Brandt; T. B. Ake; C. Collins Petersen, 1998.
28. Bouchet, V.S., E. Torlaschi, R. Laprise and J.C. McConnell, Summertime climatology of ozone with a column version of a regional climate model, pp 327-330 in "Atmospheric Ozone" edited by R.D. Bojkov and G. Visconti, Proceedings of the XVIII Quadrennial Ozone Symposium, L'Aquila, Italy 12-21 September 1996, Parco Scientifico e Tecnologico d'Abruzzo, 1998.
 29. Plummer, D.A., L. Neary, J.W. Kaminski and J.C. McConnell, Modeling the Role of Lake Breeze Transport on Ozone Concentrations in Southern Ontario, pp 415-418 in "Atmospheric Ozone" edited by R.D. Bojkov and G. Visconti, Proceedings of the XVIII Quadrennial Ozone Symposium, L'Aquila, Italy 12-21 September 1996, Parco Scientifico e Tecnologico d'Abruzzo, 1998.
 30. Tang, T. and J.C. McConnell, On the Relative Roles of Bromine and Chlorine During Spring Time Depletion of Ozone in the Arctic Boundary Layer, pp 427-430 in "Atmospheric Ozone" edited by R.D. Bojkov and G. Visconti, Proceedings of the XVIII Quadrennial Ozone Symposium, L'Aquila, Italy 12-21 September 1996, Parco Scientifico e Tecnologico d'Abruzzo, 1998.
 31. McLinden, C.A., J.C. McConnell, C.T. McElroy and E. Griffioen, Sensitivity of Polarized Limb Radiances to Stratospheric Aerosols with Application to NASA ER-2 Spectroradiometer Measurements, pp 947-950 in "Atmospheric Ozone" edited by R.D. Bojkov and G. Visconti, Proceedings of the XVIII Quadrennial Ozone Symposium, L'Aquila, Italy 12-21 September 1996, Parco Scientifico e Tecnologico d'Abruzzo, 1998.
 32. McConnell, J.C., Stratospheric Chemistry, Course notes for "Summer School on the Middle Atmosphere", held 25-29 August, Cornwall, pp 294-336, March, 1998.
 33. Llewellyn, E.J., D.A. Degenstein, I.C. McDade, R.L. Gattinger, R. King, R. Buckingham, E.H. Richardson, D.P. Murtagh, W.F.J. Evans, B.H. Solheim, K. Strong, and J.C. McConnell, OSIRIS – an application of tomography for absorbed emissions in remote sensing, 627-632, *Applications of Photonic Technology 2*, Edited by G. A. Lampropoulos and R. A. Lessard, Plenum Press, New York, 1997.
 34. McConnell, J. C. and D. J. Chartrand, Chapter 3, Ozone Simulation and Depletion, in *Ozone Science: A Canadian Perspective on the Changing Ozone Layer*, eds D. I. Wardle, J. B. Kerr, C.T. McElroy and D.R. Francis, pp 57-72, Environment Canada, 1997.
 35. McConnell, J. C. and J. W. Kaminski, Science of Total Atmospheric Ozone, pp 15-47, Proceedings: Workshop on Atmospheric Ozone, 30 Sept-1 Oct, Ontario Climate Advisory Committee, 1996.
 36. McLinden, C.A., J.C. McConnell, , E. Griffioen, and C.T. McElroy, Sensitivity of polarized limb radiances to stratospheric aerosols with application to NASA ER-2 spectrometer measurements, Proceedings, Quadrennial Ozone Symposium, September, 1996.
 37. Plummer, D., L. Neary, J. Kaminski, J. C. McConnell, Modelling the role of lake breeze transport on ozone concentrations in southern Ontario, Proceedings of Quadrennial Ozone Symposium September, 1996.
 38. Tang, T., and J.C. McConnell, The relative roles of chlorine and bromine during the spring time depletion of ozone in the Arctic boundary layer, Proceedings of Quadrennial Ozone Symposium, September, 1996.
 39. Bouchet, V., E. Torlaschi, R. Laprise, and J.C. McConnell, Summertime climatology of ozone with a column version of a regional climate model, in Proceedings of Quadrennial Ozone Symposium, September, 1996.

40. Makar, P. A., J. C. McConnell, and G. P. Klaassen, Gas-Phase chemistry numerics: a review of several methods, Air Pollution 94 Conference, 27-29th September, 1994, Barcelona.
41. Makar, P. A. and J.C. McConnell, Simulations of isoprene-ozone reactions for a general circulation transport model, pp 57-61, in "Ozone in the troposphere and stratosphere", Proceedings of the Quadrennial Ozone Symposium, 4-13 June, 1992, Charlottesville, Va, Ed. R. D. Hudson, NASA conf. pub. 3266, 1994.
42. Beagley, S. R., J de Grandpré, J. C. McConnell, R. Laprise and N. McFarlane, A global numerical study of radon²²² and lead²¹⁰ in the atmosphere using the AES and York University CDT general circulation model, pp 78--81, in "Ozone in the troposphere and stratosphere", *ibid.*
43. Sandilands, J.W., J.W. Kaminski, J.C. McConnell, S.R. Beagley, and N. McFarlane, Modelling stratospheric polar ozone using objective analysis, pp 508-511 in "Ozone in the troposphere and stratosphere", *ibid.*
44. Blanchette, C. and J.C. McConnell, Modulations of stratospheric ozone by volcanic eruptions, pp 619-622 in "Ozone in the troposphere and stratosphere", *ibid.*
45. Kaminski, J.W., J.C. McConnell, and J.W. Sandilands, Calculations of Arctic ozone chemistry using objectively analysed data in a 3-D CTM, pp 492-495 in "Ozone in the troposphere and stratosphere", *ibid.*
46. McConnell, J.C. and G.S. Henderson, Ozone depletion during polar sunrise, pp 89-103, in "Tropospheric Chemistry of Ozone in the Polar Regions", ed. H. Niki and K.H. Becker, NATO ASI series, Series 1; Global Environmental Change, vol 7., pp 425, Springer-Verlag, 1993.
47. Majeed, T., McConnell, J. C. and Yelle, R. V., Vibrationally excited H₂ in the upper atmosphere of Saturn. *Adv. Space. Res.* **10 (1)**, 131--134, 1990.
48. Atreya, S.K., J.H. Waite, Jr., T.M. Donahue, A.F. Nagy and J.C. McConnell, 1983, Theory, Measurements and Models of the Upper Atmosphere and Ionosphere of Saturn, chapter published in "Saturn" Editor T. Gehrels, U. Ariz. Press.
49. McConnell, J.C., 1976, The Ionospheres of Mars and Venus, *Ann. Rev. Planet. Sci.*, **4**, 319--346.
50. McConnell, J.C., 1975, "The Atmospheres of Mars and Venus - A Comparison," in *The Physics and Chemistry of Atmospheres*, Ed. B.A. McCormac.
51. McConnell, J.C., 1973, "The Atmosphere of Mars," in *Physics and Chemistry of Upper Atmospheres*, D. Reidel Publishing Co., 309--334.
52. McConnell, J.C and B.L. Moiseiwitsch, 1968, The Excitation of the 6¹P and 6³P States of Mercury by Proton Impact, Proc.of Conference on Heavy Particle Collisions, Queen's University, Belfast, 50--60.

COMMUNICATIONS AT CONFERENCES ETC. (Partial List):

*indicates presenter if not first author

1. Peuch, V.-H., Y. Rochon, M. van Weele, J. Barre, G. Dufour, M. Hoepfner, L. El Amraoui, M. Eremenko, M. Hegglin, J. McConnell, . Murtagh, J. Orphal, M. Riese, J. Langen, B. Kerridge, PREMIER: highlighting the benefits for NWP and Atmospheric composition research using data assimilation, 2012 EUMETSAT Meteorological Satellite Conference, 3-7 September, Sopot, Poland, 2012.
2. Semeniuk. K. et al., Middle atmosphere response to the solar cycle in irradiance and ionizing particle precipitation, COSPAR, Mysore, India, 2012

3. Nassar, R., D. B.A. Jones, C. Sioris, J. C. McConnell, K. A. Walker, H. Buijs and the PHEOS science team, Northern greenhouse gas observations from a highly elliptical orbit (HEO) mission, 8th International Workshop on Greenhouse Gas measurements from Space, 18-20 June, Pasadena, 2012.
4. McConnell, J., T. McElroy, N. O'Neill, R. Nassar, H. Buijs, P. Rahnama, K. A. Walker, R. V. Martin, C. Sioris, L. Garand, A. Trichtchenko, M. Bergeron, B. Solheim, K. Semeniuk, Y. Chen, A. Lupu, I. McDade, J. Shan, W. Evans, D. Jones, K. Strong, P. Fogal, J. Drummond, T. Duck, A. Royer, A. Hakami, D. Degenstein, A. Bourassa, P. Bernath, C. Boone, Y. Rochon, C. McLinden, R. Menard, D. Turner, J. Kaminski, V.-H. Peuch, J. Tamminen, K. Chance, C. Clerbaux, B. Kerridge, L. Moreau, S. Lantagne, M. Roux, PCW/PHEMOS-WCA: Quasi-geostationary viewing of the Arctic and environs for Weather, Climate and Air quality, ESA ATMOS-2012, Bruges, 18-22nd June, 2012 (Poster).
5. van Weele, M., J. Williams, P. van Velthoven, J. McConnell, J. Kaminski, A. Lupu, M. Chipperfield, P. Palmer, Paul, B. Kerridge, Brian, Model evaluations of methane variability in the upper troposphere and lower stratosphere, ESA ATMOS-2012, Bruges, 18-22nd June, 2012.
6. Walker, K.A., McConnell, J. C. C. Sioris, H. Buijs, L. Moreau, R. Nassar and the PHEMOS Science Team, Development of an FTS for thermal and near-infrared sounding for weather, air quality and greenhouse gas monitoring in the Arctic from highly elliptical orbits, ESA ATMOS-2012, Bruges, 18-22nd June, 2012 (Poster).
7. McElroy, C. T., J. C. McConnell, N. O'Neill, R. Nassar, H. Buijs, P. Rahnama, K. A. Walker, R. V. Martin, C. Sioris, L. Garand, A. Trichtchenko, M. Bergeron, and the PHEMOS Science Team, PCW/PHEMOS UV-VIS Spectrometer: Air Quality from a Quasi-geostationary Orbit, ESA ATMOS-2012, Bruges, 18-22nd June, 2012.
8. Kerridge, B, R. Siddans, A. Waterfall, B. Latter, G. Miles, J. Reburn, J. Orphal, N. Glatthor, F. Friedl-Vallon, A. Kleinert, L. Hoffman, P. Preusse, D. Murtagh, J. Urban, A. Dudhia, M. van Weele, J. McConnell, J. Kaminski, A. Lupu, K. Semeniuk, J. Langen, M. Riese, P. Eriksson, A. Murk, M. Whale, S. Glossow, M. Hegglin, V.-H. Peuch, P. Forster, P. Palmer, R. Hogan, Robin, P.-F. Pierre-Francois, P. Bernath, J.-M. Flaud, PREMIER - Earth Explorer 7 Candidate Mission, ESA ATMOS-2012, Bruges, 18-22nd June, 2012.
9. Preusse, P., L. Hoffmann, C. Lehmann, J. Alexander, D. Broutman, H.-Y. Chun, A. Dudhia, A. Hertzog, M. Hoepfner, Y.-H. Kim, W. Lahoz, M. Pulido, M. Riese, H. Sembhi, S. Wuest, V. Alishahi, M. Bittner, M. Ern, J. McConnell, V. Sofieva, New perspectives of gravity wave remote sensing through ESA's candidate mission PREMIER, ESA ATMOS-2012, Bruges, 18-22nd June, 2012.
10. McConnell, J. C., C. T. McElroy, C. E. Sioris, K. A. Walker, H. Buijs, P. Rahnama, A. P. Trishchenko, L. Garand, R. Nassar, R. V. Martin, M. Bergeron, N. O'Neill, and the PHEMOS Science team, PCW/PHEMOS for Arctic weather, climate, and air quality: A quasi-geostationary view of the Arctic and environs, "From Knowledge to Action, IPY, 22-27th April, Montreal, 2012.
11. Rahnama, P., J. C. McConnell, C. T. McElroy, C. E. Sioris, R. V. Martin, L. Garand, M. Bergeron, H. Buijs, N. T O'Neill, and the PHEMOS Team, UV-VIS Spectrometer for the PCW/PHEMOS Mission, CASI-ASTRO meeting, Quebec City, 24-26th April, 2012.
12. Sioris, C., J. C. McConnell, H. L. Buijs, R. Nassar, K. A. Walker and the PHEMOS Science Team, PHEMOS FTS measurements in the near-IR: remote sensing of CO₂, CH₄, and aerosol parameters, PHEMOS, NIR, CASI-ASTRO, Quebec City, 24-26th April, 2012.

13. Lantagne, S., S. H. Buijs, J. McConnell, K. A. Walker, C. T. McElroy, L. Moreau, P. Rahnama, and the PHEMOS Science Team, PHEMOS Weather, Climate and Air Quality as an essential complement to PCW: Payload Overview, CASI-ASTRO, Quebec City, 24-26th April, 2012.
14. Walker, K.A., C. Sioris, J. C. McConnell, H. Buijs, L. Moreau, and the PHEMOS Science Team, Thermal and near-infrared sounding for weather, air quality and greenhouse gas monitoring in the Arctic from highly elliptical orbits, Geophysical Research Abstracts, 14, EGU2012-13356, 2012, EGU General Assembly, April 2012.
15. Toyota, K., A. P. Dastoor, R. Stabler and J. C. McConnell, Air-snowpack exchange of bromine, ozone and mercury simulated by the 1-D model PHANTAS: context in the springtime Arctic, Geophysical Research Abstracts, 14, EGU2012, 2012, EGU General Assembly, April 2012.
16. Daerden, F, L. Neary, J. Whiteway, C. Dickinson, L. Komguem, J.C. McConnell, and J. Kaminski, Simulating the Phoenix Lander meteorological conditions with a Mars GCM, Geophysical Research Abstracts, 14, EGU2012-12628, 2012, EGU General Assembly, April, 2012.
17. McConnell, J., Arctic weather, climate and air quality: A quasi-stationary view with PHEOS, Atmospheric Composition Constellation Meeting (ACC-8), 18-19th April, Columbia, MD, 2012.
18. Langen, J., B. Carnicero-Dominguez, A. Gabriele, P. Jurado, V. Kangas, J. Caron, , S. Kraft, H. Schumeettmeyer, and the PREMIER Mission Advisory Group, Geophysical Research Abstracts, 14, EGU2012-4890-1, 2012, EGU General Assembly, April, 2012.
19. McConnell, J. C., N. O'Neill, C. T. McElroy, B. Solheim, H. Buijs, P. Rahnama, K. A. Walker, R. V. Martin, C. Sioris, L. Garand, A. Trichtchenko and the PHEMOS Team, PCW/PHEMOS for Arctic weather, climate and air quality: A quasi-stationary view of the Arctic and environs, AGU, San Francisco, 5-9th December, 2011 (Poster).
20. McConnell, J. C., The Atmosphere of Mars: insights from measurements and modeling in the last decade, Royal Military College, 20th October, 2011
21. Daerden, F., A.C. Vandaele, J.J. Lopez-Moreno, R. Drummond, M. R. Patel, G. Bellucci, and the NOMAD team, Science objectives of the NOMAD spectrometer on ExoMars Trace Gas Orbiter, Division of Planetary Aeronomy, DPS, Nantes, October, 2011.
22. Vandaele, A. C. et NOMAD.
23. McConnell, J. C. Atmospheric chemistry and airglow on Mars; a probe of multiscale temporal and spatial scales of planetary processes, Invited talk, "Chemistry as a Tool for Space Exploration and Discovery at Mars", Amer. Chem. Soc., Denver, 28th Aug-1st Sept., 2011
24. Toyota, K, A. Dastoor, J. C. McConnell, Mercury oxidation and reduction in and above the snowpack in the springtime Arctic: Insights from 1-D model simulations, International Mercury Conference, Halifax, July 24-29, 2011.
25. Toyota, K., J. C. McConnell and A. Dastoor, Reactive halogen release from the polar snowpack and the depletion of ozone and mercury in the air: Insights from 1-D (mechanistic) and 3-D (chemical transport) models, AICI Snow Chemistry Modeling Workshop, Columbia University, 8 June 2011.
26. McConnell, J.C., Some reflections on Mars Atmospheric Chemistry from the surface to the thermosphere, NOMAD-MTGO, 2nd Science Team Meeting, 9-10 June, Belso, Brussels, 2011.
27. Martin, R. and the PHEMOS Team, PCW/ PHEMOS: Weather, Climate and Air Quality, 45th CMOS Congress, Victoria, 7 June 2011.

28. McConnell, J. C, Climate Change in Ontario past, present, and future: Focus on Air Quality, “A Dialogue with Stakeholders”, Ontario Regional Climate Change Consortium, 30th May, OCADU,
29. McConnell, J. C. for PHEMOS Team, PCW/PHEMOS Polar Highly elliptical Molniya Orbit Science: Weather, Climate and Air quality Mission, seminar, BIRA, 18th January, 2011.
30. McConnell, J. C. for PHEMOS team, PCW/ PHEMOS Weather, Climate and Air quality Mission: Focus on FTS, Satellite Hyperspectral Sensor Workshop, U of Miami, Florida, March 29 -31, 2011.
31. J. R. Freemantle, O'Neill, N. T., Lumb, I., McConnell, J., Lupu, A., Abboud, I. , McArthur, L. J. B., Creating Actionable Air Quality Data using RDF and the SWE Common Data Model CMOS, Victoria, June, 2011
32. Nassar, R., D. Jones, K. Walker, C.T. McElroy, B. Solheim, H. Buijs, P. Rahnema, J. C. McConnell, Greenhouse gas measurements at northern high latitudes from PHEMOS on the PCW mission CMOS June, 2011.
33. McConnell, PHEMOS, EUMETSAT, conf, Oslo, 2011.
34. Peuch, V.-H., M. van Weele , J. Barré, L. El Amraoui, M. Hoepfner, J. Orphal, G. Dufour, M. Eremenko, M. I. Hegglin, J. C. Mc Connell, D. Murtagh, M. Riese, J. Langen, B. Kerridge, The PREMIER and Metop Limb+Nadir synergy for Tropospheric composition science and applications, EUMETSAT conf., Oslo, 2011.
35. McConnell, J. C., J. W. Kaminski, A. Lupu, K. Semeniuk, Biomass burning and lightning sources of emissions from ACE-FTS, OSIRIS, and MOPITT using GEM-AQ in high resolution mode, Joint ACE/OSIRIS Science Team meeting, Environment Canada, Toronto, 25-27 October, 2010.
36. Solheim, B., Y. Chen, J. C. McConnell, C. Sioris, P. Rahnema, GHG Observations using Spatial Heterodyne Spectroscopy (SHS) and a Constellation of Microsatellites, IWGGMS, Edinburgh, 2011.
37. Nassar, R., D. B.A. Jones, K. A. Walker, C. T. McElroy, B. Solheim, H. L. Buijs, P. Rahnema, J.C. McConnell, Arctic greenhouse gas measurements from PHEMOS on the PCW mission, IWGGMS, Edinburgh, 2011. (cancelled due to EC travel cuts)
38. Al Mamun, A., J. W. Kaminski, J. C. McConnell, Stratospheric water and temperature from GEM, ACE and MLS, Joint ACE/OSIRIS Science Team meeting, Environment Canada, Toronto, 25-27 October, 2010.
39. Lupu, A., N. T. O'Neill, J. W. Kaminski, K. Semeniuk, and J. C. McConnell, Transport of biomass burning emissions into the Arctic in April 2008: GEM-AQ simulation and comparison with aircraft observations from the ARCTAS and ARCPAC campaigns, poster, EGU, April, Vienna, 2011.
40. Hipkin, V. J., P.O. Wennberg, J. R. Drummond, G. Toon, M. Allen, J-F Blavier, L. Brown, A. Kleinbohl, J. Abbatt, B. Sherwood Lollar, K. Strong, K. Walker, P. Bernath, R.T. Clancy, E. Cloutis, D. DesMarais, J. Eiler, Y. Yung, T. Encrenaz, J. McConnell, The Mars Atmospheric Trace Molecule Occultation Spectrometer: Science Objectives, Paris Workshop, Feb, 2011.
41. Wennberg, P.O., V. Hipkin, J. Drummond, G. Toon, M. Allen, J-F Blavier, L. Brown, A. Kleinbohl, J. Abbatt, B. Sherwood Lollar, K. Strong, K. Walker, P. Bernath, R.T. Clancy,

- E. Cloutis, D. DesMarais, J. Eiler, Y. Yung, T. Encrenaz, J. McConnell, The Mars Atmospheric Trace Molecule Occultation Spectrometer, Paris Workshop, Feb, 2011.
42. Freemantle, J., N. T. O'Neill, A. Mileevsky, I. Lumb, J. McConnell, B. McArthur, I. Abboud, Creating Actionable Data from an Optical Depth Measurement Network using RDF, AGU, 13-17 December, San Francisco, 2010.
 43. COSPAR – need to fill in, PREMIER, BIRA?
 44. Toyota, K., J. C. McConnell, Lori Neary, A. Lupu, J. W. Kaminski, Jerzy Jarosz, Kirill Semeniuk, Sunling Gong, Andreas Richter, Chris McLinden, Ronald Kwok, Takashi Kikuchi, Synoptic-scale meteorological control on reactive bromine production and ozone depletion in the Arctic boundary layer: 3-D simulation with the GEM-AQ model, June, IGAC-ICACGP, 2010.
 45. McLarty, J., Jacek Kaminski, Knut von Salzen, John McConnell, First results from the implementation of the piecewise log-normal approximation for aerosols in GEM-AQ, June, IGAC-ICACGP, 2010.
 46. McLarty, J., John C. McConnell, Heating effects of a vertically size-dependent lognormal dust distribution in a column model of the Martian atmosphere, June, CMOS-CGU Cong., 2010.
 47. McLarty, J., John C. McConnell, Jacek W. Kaminski, Knut von Salzen, Sensitivity responses to the piecewise log-normal approximation in a single column model and implementation into the GEM-AQ model, June, CMOS-CGU Cong., 2010
 48. Hegglin, M. I., Brian Kerridge, Jack McConnell, Donal Murthag, Johannes Orphal, Vincent-Henri Peuch, Martin Riese, Michiel van Weele, PREMIER - A Candidate ESA Earth Explorer Mission for space-based observations in the UTLS, CMOS-CGU Cong., 2010
 49. McConnell, J. Tom McElroy, Brian Solheim, Kaley Walker, Jacques Giroux, Peyman Rahnama, PHEMOS TEAM , PCW/PHEMOS Arctic weather, climate and air quality, June, CMOS, 2010.
 50. McConnell, J. C. et PHEMOS team., Arctic Weather, climate and air quality from Molniya-quasi-geostationary orbits, Space Science Symposium, York University, 27-28th May, 2010.
 51. McConnell, J. C., Mars GCM modeling, Recent Results in Planetary Sciences, Atmospheric Chemistry, Climate and Energy Policy, A Symposium in celebration of Michael McElroy's contributions", 20-21st March, Harvard University, 2010.
 52. Neary, L., F. Daerden, J.W. Kaminski, J.C. McConnell, A.-C. Vandaele, R. Drummond, Modelling Mars Chemistry and Meteorology with the GEM-Mars GCM, COSPAR, July, 2010.
 53. Langen, J., P. Bensi, J.-L. Bezy, B. Carnicero-Dominguez, J. Caron, Y. Durand, A. Gabriele, P. Jurado, V. Kangas, S. Kraft, and the **PREMIER Mission Advisory Group**, PREMIER – limb-sounding in the upper troposphere, COSPAR, Bremen, July, 2010.
 54. Yau, A. W, Y. Lin, P. Harrison, R.B. Langley, W. Lunscher, J. C. McConnell, J.-M. Noel, M. Shepherd, B. Solheim, D.D. Wallis, Anomalous Satellite Drag due to Space Weather: The ionospheric Space Weather Effects in the Auroral Thermosphere (I-SWEAT) Micro-Satellite Mission Concept, ASTRO/CASI conference, Toronto, 5-7 May, 2010.
 55. Walker, K. A., H. Buijs, L. Moreau, P. Harrison, V. Pillay, J-F Thibault, I. Folkins, C. T. McElroy, C. E. Sioris, Y. J. Rochon, D. B. A. Jones, K. Strong, P. F. Bernath, K. Gilbert, M. Butler, W. F. J. Evans, J. Kaminski, and John C. McConnell, Concept Study for the

- Solar Occultation for Atmospheric research (SOAR) Satellite Mission, ASTRO/CASI conference, Toronto, 5-7 May, 2010.
56. McConnell, J. C., C. T. McElroy, B. Solheim, J. G. Giroux, P. Rahnama, K. Walker, and the PHEMOS team, PCW/PHEMOS Arctic weather, climate and air quality, ASTRO/CASI conference, Toronto, 5-7 May, 2010.
 57. Kerridge, B. M. Riese, J. Orphal, D. Murtagh, J. C. McConnell, M. Hegglin, M. van Weele, Vincent-Henri Peuch, PREMIER: CANDIDATE ESA EARTH EXPLORER MISSION, EUMETSAT meteorological satellite conference, Sept, 2010.
 58. Neary, L., F. Daerden, J.W. Kaminski, J.C. McConnell, Mars methane emission and transport scenarios using the GEM-Mars GCM, EGU, Vienna, April, 2010.
 59. Neary, L., F. Daerden, J.W. Kaminski, J.C. McConnell, Modelling Mars Chemistry and Meteorology with the GEM-Mars GCM, EGU, Vienna, April, 2010.
 60. Kerridge, B. et al. PREMIER, EGU, April, 2010.
 61. McConnell, J. C., Climate science and Capacity at York University, Talk and panel, 5th February, Climate Science Workshop:Regional Climate Modelling Capacity in Ontario, 2010.
 62. Lupu, A., N.T. O'Neill, J.W. Kaminski, K. Toyota, J.C. McConnell, A. Saha, and M. Sofiev. GEM-AQ Simulation of Transport of Biomass Burning Emissions into the Arctic in April 2008, AGU, Dec., 2009.
 63. Jin, J., N. J. Livesey, J. H. Jiang, A. Lupu, Q. Li, J. W. Kaminski, J. C. McConnell, Seasonal variability of trans-Pacific transport of air pollution in the lower and upper troposphere, AGU, Dec., 2009.
 64. Walker, K. A, H. Buijs, L. Moreau, P. Harrison, V. Pillay, J.-F. Thibault, V. Wehrle, I. Folkens, C. T. McElroy, C. E. Sioris, D. B. A. Jones, K. Strong, P. F. Bernath, K. Gilbert, M. Butler, W. F. J. Evans, J. Kaminski, and J. C. McConnell, Concept Study for the Solar Occultation for Atmospheric Research (SOAR) Satellite Mission, AGU, Dec., 2009.
 65. Kaminski, J. W., A. Lupu, L. Neary, K. Semeniuk, K. Toyota, J. McLarty, A. Mamun, J. Struzewska, F. Daerden, J. C. McConnell, GEM-AC suite of models for Air quality, climate and process studies – update, ACE Science Team Meeting, 28-30th October, Waterloo, 2009.
 66. Semeniuk, K., V. Fomichev, S. M. L. Melo and J. C. McConnell, Impact of Ionizing Particle Precipitation on the Middle Atmosphere, MOCA, Montreal, July, 2009.
 67. Meeting, Alex - FMM - TF HTAP Joint Workshop on Regional-Global and Air Quality-Climate Linkages 17-19 June 2009, Paris, France.
 68. Alex, AC&C (Atmospheric Chemistry and Climate) Activity 4 Agenda: Saturday June 20th University Pierre and Marie Curie, Jussieu, Amphitheater 45B, Paris, 2009.
 69. Lupu, A., J. W. Kaminski, L. Neary, J. C. McConnell, K. Toyota, C. P. Rinsland, P. F. Bernath, K. A. Walker, C. D. Boone, Y. Nagahama, K. Suzuki. Comparison of global ACE-FTS observations in the upper troposphere and GEM-AQ simulations (poster), CMOS, June, Halifax, 2009.
 70. Lupu, A., N. T. O'Neill, J. W. Kaminski, L. Neary, J. C. McConnell, A. Saha. GEM-AQ simulation of fine-mode aerosol optical events observed in the Canadian High Arctic at Eureka (oral) CMOS, June, Halifax, 2009.
 71. Toyota, K., A. Lupu, J. W. Kaminski, and J. C. McConnell. Evaluation and impacts of an online biogenic emission model in GEM-AQ using summertime ozone episodes in North America (poster) CMOS, June, Halifax, 2009.

72. McLarty, J., T. Bulteau, A. Lupu, J. W. Kaminski, L. Neary, K. Toyota, J. C. McConnell. Evaluation of the GEM-AQ model during the INTEX-A field campaign (oral) CMOS, June, Halifax, 2009.
73. McConnell, J. C., A. Lupu, L. Neary, J. W. Kaminski, K. Toyota, K. Semeniuk. Climate and regional air quality impacts on Canadian and Ontarian scales using GEM-AQ and GEM-AQ/LAM (oral) CMOS, June, Halifax, 2009.
74. Toyota, K., A. Lupu, J. Kaminski, J. C. McConnell., Impacts of biogenic emissions on summertime ozone episodes in North America: GEM-AQ simulation of the August 2007 heat wave, AGU 2009 Joint Assembly: The Meeting of the Americas, 24-27 May, 2009, Toronto.
75. McLarty, J., A. Lupu, J. C. McConnell, T. Bulteau, L. Neary, J. W. Kaminski, K. Toyota, T. Sobieraj. Assessment of the GEM-AQ Model Lightning and Emission Fields During the INTEX-A Field Campaign (poster), AGU 2009 Joint Assembly: The Meeting of the Americas, 24-27 May, 2009, Toronto.
76. Lupu, N. T. O'Neill, J. W. Kaminski, L. Neary, J. C. McConnell, A. Saha. GEM-AQ modelling of smoke events observed in the Canadian High Arctic, EGU, April, Vienna, (poster), 2009.
77. McConnell, J.C. et al., PCW workshop, Polar air quality and climate processes with a Molniya orbit, York University, 30th January, 2009.
78. Lupu, A., N. T. O'Neill, L. Neary, K Toyota, J. C. McConnell, K. Strong, R. Batchelor, J. W. Kaminski, A. Saha, GEM-AQ modelling of smoke events observed in the high Arctic at Eureka, Canada, CANDAC workshop 27-29 November, 2008, Westin Harbour Castle, Toronto.
79. McConnell, J. C., M. Mullins, H. Chesser, B. Solheim, J. Kaminski, K. Strong, D. Jones, N. O'Neill, J. Drummond, R. Martin, C. T. McElroy, W. F. J. Evans, J. G. Giroux, M.-A. A. Soucy, H. L Buijs, L. M. Moreau, G. Buttner, P. Rahnama, N. Rowlands, J. Hackett, A. Bell, Polar Air Quality and Climate from a Molniya orbit, 37th COSPAR Scientific Assembly, Montreal, 2008.
80. Beagley, S., C. Boone, V. I. Fomichev, K.Semeniuk, J.-J. Jin, J. C. McConnell, Carbon dioxide in the mesosphere and lower thermosphere: Comparing ACE observations and the extended CMAM, MOCA (IAMA-SIAPSO-IACS-Assembly-2009), Montreal, 2009.
81. McConnell, J.C. et al., PCW workshop, Polar air quality and climate processes with a Molniya orbit, York University, 30th January, 2009.
82. Kerridge, B. et al (PREMIER MAG), PREMIER presentation at ESA, user consultation meeting, 20-21st January, Lisbon, 2009.
83. AGU 08 – Kenjiro
84. AGU – Alex – 08
85. Lupu, A., N.T. O'Neill, L. Neary, K. Toyota, J.C. McConnell, K. Strong, R. Batchelor, J.W. Kaminski, and A. Saha, GEM-AQ modelling of smoke events observed in the high Arctic at Eureka, Canada, AGU Fall Meeting, San Francisco, December 2008.
86. Drummond, J.R., Bernath, P., Jones, D., Strong, K., Walker, K.A., Kaminski, J.W., McConnell, J.C., Llewellyn, E.J., Ward, W.E., Hackett, J., Girard, T., Rahnama, P., Giroux, J., Moreau, L., Ghafoor, N., Erkorkma, C., Bazley, S, Smith, K.W., The Mars Canadian, Climate and Composition Mission (MCCCM), Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008

87. Akingunola A., Abbas M., McConnell J. C., Kaminski J., and Hirst S., A comparison of measurements of O₂(¹Δ) airglow on Mars with calculations from GM3, Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008.
88. Akingunola A., McConnell J. C., Kaminski J., Rastgar F. F, Wu D, The Second Generation of the Global Mars Multiscale Model (GM3), Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008.
89. Rastgar F. F., Akingunola A., McConnell J. C., Kaminski J., Mesoscale modeling on Mars using GM3-GV, Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008.
90. Barnes, G., McConnell, J.C., McDade, I. C., Solheim, B., Llewellyn, E. J., Bourassa, A., Daerden, F., D., Friberg, D., Bazley, S., Smith, K., Marchand, P., Proulx, P., Donovan, E., Kabin, Sioris, C., McLinden, C., Siskind, D., Stevens, M., Murtagh, D., An UVvis-NIR Spectrometer for NASA's MARS SCIENCE ORBITER: Design and observing goals, Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008.
91. Daerden, F., Verhoeven, C., Moreau, D., Akingunola, A., McConnell, J. C., Kaminski, J. W. and Larsen³, N., Detailed microphysics and cloud formation in a Mars GCM, GM3, Canadian Space Exploration Workshop 6, 1-3 December, St Hubert, 2008.
92. Lupu, A., N. T. O'Neill, L. Neary, K Toyota, J. C. McConnell, K. Strong, R. Batchelor, J. W. Kaminski, A. Saha, GEM-AQ modelling of smoke events observed in the high Arctic at Eureka, Canada, CANDAC workshop 27-29 November, 2008, Westin Harbour Castle, Toronto
93. Akingunola, A., J. C. McConnell, J. Kaminski, F. R. Farahnaz, D. Wu, The second generation of the global Mars multiscale model (GM3), The third International Workshop on the Mars Atmosphere: Modeling and Observations, Williamsburg, Va, November 10–13, 2008.
94. Verhoeven, C., F. Daerden, D. Moreau, A. Akingunola, J. C. McConnell, J. W. Kaminski and N. Larsen, Study of ice cloud formation and evolution in the Tropical Cloud Belt with a detailed microphysical model, The third International Workshop on the Mars Atmosphere: Modeling and Observations, Williamsburg, Va, November 10–13, 2008,
95. Daerden, F., C. Verhoeven, D. Moreau, J.W. Kaminski, J.C. McConnell, A. Akingunola, and N. Larsen, Influence of detailed microphysics on cloud formation in a Mars GCM, The third International Workshop on the Mars Atmosphere: Modeling and Observations, Williamsburg, Va, November 10–13, 2008.
96. McConnell J. C., J. W. Kaminski., A. Akingunola, M. Abbas, F. Daerden, S. Hirst, A Comparison of Measurements of O₂(¹Δ) and NO Airglow with Calculations from GM3, Chemical modelling of Mars and comparison of NO airglow measurements with GM3 model results, The third International Workshop on the Mars Atmosphere: Modeling and Observations, Williamsburg, Va, November 10–13, 2008,
97. Gagné, M.-E., S. Melo, K. Strong, A. Garcia-Muñoz, J. C. McConnell, I. C. McDade, T.G. Slinger, Feasibility studies for measuring temperature and atomic-oxygen density in the Martian atmosphere, 37th COSPAR Scientific Assembly, Montreal, 2008.
98. Semeniuk, K., C. Fu, V. I. Fomichev, I. G. Usoskin, J. C. McConnell, and S. M. L. Melo*, The Effect of Galactic Cosmic Rays on the Middle Atmosphere: a study using the Canadian Middle Atmosphere Model, Solar Variability, Earth's Climate and the Space Environment, International Workshop, 1-6 June, Bozeman, Montana, 2008.
99. Lopez-Peurtas, M., B. Funke, M. Garcia-Comas, N. Glattthor, G. P. Stiller, T. Von Clarmann, K. Semeniuk, and J. C. McConnell, N₂O and CO changes in the polar

- stratosphere/mesosphere during the October-November 2003 solar proton events as observed by MIPAS, 1st International HEPPA Workshop, FMI, Helsinki, Finland, 28-31 May, 2008.
100. McConnell, J. C., M. Mullins, H. Chesser, B. Solheim, J. Kaminski, K. Strong, D. Jones, N. O'Neill, J. Drummond, R. Martin, C. T. McElroy, W. F. J. Evans, J. G. Giroux, M.-A. A. Soucy, H. L Buijs, L. M. Moreau, G. Buttner, P. Rahnama, N. Rowlands, J. Hackett, A. Bell, Polar Air Quality and Climate from a Molniya orbit, 37th COSPAR Scientific Assembly, Montreal, 2008.
 101. O'Neill, N., McConnell, J. C., M. Mullins, H. Chesser, B. Solheim, J. Kaminski, K. Strong, D. Jones, J. Drummond, R. Martin, C. T. McElroy, W. F. J. Evans, J. G. Giroux, M.-A. A. Soucy, H. L Buijs, L. M. Moreau, G. Buttner, P. Rahnama, N. Rowlands, J. Hackett, A. Bell, Polar Air Quality and Climate from a Molniya Orbit, Spring AGU, Florida, (oral) 2008.
 102. Akingunola, A. and J. C. McConnell, Simulating the Martian atmospheric water processes with GM3, Mars Water Cycle Workshop, 21-23 April, Paris, 2008.
 103. Daerden, F. D., C. Verhoeven, N. Matshvili, D. Fussen, J.C. McConnell, J.W. Kaminski, and N. Larsen, Martian ice cloud formation in a GCM-driven detailed microphysical model, Mars Water Cycle Workshop, 21-23 April, Paris, 2008.
 104. Daerden, F., D. Akingunola, C. Verhoeven, J.C. McConnell, J.W. Kaminski, N. Matshvili, D. Fussen, Global modeling of water ice clouds on Mars and comparison to SPICAM observations, EGU, April, Vienna, 2008.
 105. Wu, H; J. C. McConnell, N. O'Neill, Mineral Dust Emission and Transport: Observation and Modeling, EGU, April, Vienna, 2008.
 106. Daerden, F., C. Verhoeven, N. Larsen, N. Matshvili, D. Fussen, D. Akingunola, J.C. McConnell, J.W. Kaminski, Detailed microphysical model for Martian water ice clouds driven by a 3D GCM, EGU, April, Vienna, 2008.
 107. Jin, J. J., K. Semeniuk, S. R. Beagley, A. I. Jonsson, J. C. McConnell*, J. Urban, D. Murtagh, B. Barret, E. Dupuy, C. D. Boone, SMR and ACE team, Comparison of CMAM simulations of CO, N₂O, and CH₄ with observations from Odin/SMR, ACE-FTS, and AURA MLS, EGU, April, Vienna, 2008. (Poster)
 108. Lupu, A., J. W. Kaminski, L. Neary, J. C. McConnell, C. P. Rinsland, P. F. Bernath, K. A. Walker and C. D. Boone, Hydrogen cyanide in the upper troposphere, EGU, April, Vienna, 2008.
 109. Neary, L., J. W. Kaminski, J. C. McConnell, NO_x/HNO₃ PDFs in the upper troposphere as a metric for convection processes using GEM-AQ, EGU, April, Vienna, 2008.
 110. Akingunola, A., and J. C. McConnell, Simulating the Martian Atmospheric water processes with GM3, Mars Workshop, April, Paris, 2008.
 111. Frank, Mars Workshop
 112. McConnell, J. C., Polar Air Quality and Climate from a Molniya orbit, at the Second meeting of the IGeoLab for Highly Elliptical Orbit (HEO) Focus Group (IGeo-Lab-HEO-FG-2), 9-10th October, WMO Headquarters, Geneva, 2007.
 113. Daerden, F., N. Matshvili, A. Akingunola, J. C. McConnell, J.W. Kaminski, A Comparison of bulk water ice clouds in GM3 with measurements of ice clouds from SPICAM, European Mars Science and Exploration Conference, 12-16th November, ESTEC, 2007.

114. Semeniuk, K., J. C. McConnell*, P. F. Bernath, J.-J. Jin, C. Fu, J. Jaroz, N₂O production during high energy auroral precipitation, AGU, San Francisco, 10-14 Dec, 2007. (Poster)
115. Akingunola, A., N. Mateshvili, J. C. McConnell, F. Daerden, J.W. Kaminski, Comparison of bulk water ice clouds in GM3 with SPICAM ice cloud measurements, AGU, San Francisco, 10-14 Dec, 2007. (Poster)
116. Toyota, K., J. C. McConnell*, L. Neary, A., Lupu, J. W. Kaminski, J. Jarosz, S.-L. Gong, R. Kwok, K. Anlauf, T. Kikuchi, A., Richter, C. A. McLinden, Simulating Arctic bromine explosion and surface ozone depletion with the GEM-AQ model, AGU, San Francisco, 10-14 Dec, 2007. (Talk)
117. O'Neill, N. T., A. Lupu, L. Neary, S. Thulasiraman, J. C. McConnell, J. Kaminski, Evaluation of the GEM-AQ air quality model on a global scale; extensive and intensive parameter comparisons with AERONET and MODIS, AGU, San Francisco, 10-14 Dec, 2007 (Poster)
118. Beagley, S. R., J. C. McConnell*, V.I. Fomichev, K. Semeniuk, A. I. Jonsson, A. Garcia Munoz, C. McLandress and T.G. Shepherd, Extended CMAM: Impacts of thermospheric neutral and ion chemistry on the middle atmosphere, AGU, San Francisco, 10-14 Dec, 2007 Talk)
119. Semeniuk K., C. Fu, V. I. Fomichev, J. C. McConnell*, and S. M. L. Melo, The Middle Atmosphere and Energetic particle precipitation - response in the Canadian Middle Atmosphere Model, AGU, San Francisco, 10-14 Dec, 2007 (Poster)
120. Jin, J. J. , K. Semeniuk, S. R. Beagley, A. I. Jonsson, J. C. McConnell*, J. Urban, D. Murtagh, B. Barret, E. Dupuy, C. D. Boone, P. F. Bernath, K. A. Walker, Comparison of CMAM simulations of carbon monoxide (CO), Nitrous Oxygen (N₂O), and methane (CH₄) with observations from Odin/SMR, ACE-FTS, and AURA MLS, AGU, San Francisco, 10-14 Dec, 2007. (Poster)
121. Lupu, A., J. W. Kaminski, L. Neary, J. Jaroz, J. C. McConnell*, C. Rinsland, P. Bernath, K. A. Walker, C. Boone, GEM-AQ global simulation of HCN and comparison with ACE satellite observations, AGU, San Francisco, 10-14 Dec, 2007. (Talk)
122. Strong, K., J. Drummond, H. Fast, A. Manson, T. McElroy, G. Shepherd, R. Sica, J. Sloan, K. Strawbridge, K. Walker, W. Ward, J. Whiteway, J. McConnell, P. Bernath, T. Shepherd, R. Batchelor, P. Fogal, A. Fraser, D. Fu, A. Harrett, M. Harwood, T. Kerzenmacher, A. Khmel, R. Lindenmaier, C. Midwinter, R. Mittermeier, P. Loewen, O. Mikhailov, M.A. Okraszewski, H. Popova, K. Sung, Investigating Middle Atmospheric Chemistry at the Polar Environment Atmospheric Research Laboratory (PEARL), Data Assimilation Workshop, September 4-7, 2007, Fields Institute, Toronto, Ontario, Canada.
123. O'Neill, N., et al CMOS, 2007.
124. Semeniuk, K., C. Fu, V. I. Fomichev, J. C. McConnell and S. M. L. Mello, Simulations of the Effect of Ionizing Particle Precipitation on the Middle Atmosphere, COSPAR, Perugia, July, 2007.
125. Neary, L., J. H. Jiang, N. J. Levesey, H. Su, J.C. McConnell, Comparison of Aura/MLS upper troposphere CO measurements with 2 global chemical models, CMOS St John's, 2007.
126. Semeniuk, K., Precipitation/ACE/GOMOS/CMAM, ACE Workshop, 14-16th May, Waterloo, 2007.

127. Jin, J., K. Semeniuk, S. R. Beagley, A. I. Jonsson, J. C. McConnell, G. L. Manney, K. A. Walker, C. D. Boone, P. F. Bernath, Analysis of the Antarctic ozone loss and related chemical processes, ACE Workshop, 14-16th May, Waterloo, 2007.
128. Kaminski, J. W., et al., GEM-AQ status and future, ACE Workshop, 14-16th May, Waterloo, 2007.
129. Lupu, A., et al., wildfires update ACE Workshop, 14-16th May, Waterloo, 2007.
130. Urban, J., D. Murtagh, P. Eriksson, M. Ekstrom, U. Frisk, S. Lossow, B. Barret, E. Le Flochmoen, P. Ricaud, E. Dupuy, Y. Kasai, J.J. Jin, K. Semeniuk, J. McConnell, Global observations of long-lived trace constituents in the middle atmosphere by Odin/SMR: N₂O, CO, H₂O and its isotopes, SCOUT-O₃ meeting, May, 2007.
131. Toyota, K., J. C. McConnell, A. Lupu, L. Neary, A. Richter, C. A. McLinden, J. W. Kaminski, L. Loboeki, K. Semeniuk, J. Jarosz, M. Neish, and S.-L. Gong, 'Siberian Express' of reactive bromine transport from the Arctic Ocean: GEM-AQ model runs, EGU, Vienna, April, 2007.
132. Lupu, A., J. W. Kaminski, L. Neary, J. C. McConnell, J. Jarosz, C. Rinsland, P. Bernath, K. Walker, C. Boone, N. T. O'Neill, J. S. Reid, Alaskan and western Canadian wildfires in the summer 2004: comparison with ACE satellite measurements and GEM-AQ simulations, EGU, Vienna, April, 2007.
133. Lupu, A., L. Neary, J.W. Kaminski, J.C. McConnell, P. Bernath, C. Rinsland, Application of GEM-AQ to Multiscale Air Quality Modelling: Transport of pollutants from boreal forest fire burning, (Poster) HTAP and WMO workshop: Integrated Observations for assessing Hemispheric Air Pollution, 24-26th January, Geneva, 2007.
134. Jiang, J., N. J. Livesey, L. Neary and J. McConnell, Comparison of Aura MLS CO measurement Aura-with 2 global chemical models, AMS meeting, Jan, 2007.
135. Neary, L., A. Lupu, J. W. Kaminski, M. Neish, J.C. McConnell, On behalf of the MAQNet team, Evaluation of GEM-AQ in Global Uniform Configuration Model vs. measurements from aircraft, satellite and sondes, Ions Workshop, MSC, Toronto, November, 2006.
136. Struzewska, J., J.W. Kaminski, L. Neary, J. C. McConnell, The impact of vertical transport on free troposphere composition during ESCOMPTE field experiment, IOP2. MC2-AQ model simulations, Ions Workshop, MSC, Toronto, November, 2006.
137. McConnell, J. C., Modelling Requirements and status, Workshop on Air-Ice Chemical Interactions, LGGE Grenoble, May 29-31, 2006.
138. Menard, R., S. Chabrilat, P. Gauthier, C. Charette, M. Charron, J. de Grandpre, A. Robichaud, C. Xie, C. Cote, A. Kallaur, Y. Yang, Y. Rochon, J.C. McConnell and J.W. Kaminski, Chemical-dynamical coupling in data assimilation, CMOS, Toronto, June, 2006
139. O'Neill, N, T., L.B.J. McAurthur, K. B. Strawbridge, J. C. McConnell, T. Duck, A. Royer, S. Thulasiraman, J. Freemantle, A. Lupu, M. Aube, The Aerosol Optical Network: a pan-Canadian, ground-based network for the monitoring of aerosol properties and the evaluation of spatio-temporal aerosol models, CMOS, Toronto, June, 2006.
140. Xu, Y. J.W. Kaminski, L. Neary, A. Lupu, J.C. McConnell, B. Ainslie, D. Steyn, and
141. Martilli, Application of GEM-AQ for the forecast of meteorology in Pacific 2001 with uniform and variable-resolution, EGU, Vienna, April, 2006.
142. Jin, J-J, K. Semeniuk, A. I. Jonsson, S. R. Beagley, J. C. McConnell*, G. Dufour, R. Nassar, C. D. Boone, K. A. Walker, P. F. Bernath, C. P. Rinsland, J. Urban, D. Murtagh, S.

- V. Petelina, Severe Arctic Ozone loss in the Winter 2004-2005 using ACE and Odin Measurements, talk, AGU, Fall, 2005.
143. McConnell, J. C., The Aeronomy of Mars, Institut d'Astrophysique de Paris, 7th October, 2005.
 144. McConnell, J, Multiscale 3D climate and AQ modelling, Workshop on Climate change and air quality interactions, 22 September, 2005.
 145. McConnell, J., K. Toyota, A. Lupu, J. Kaminski, Modelling for GEM-AQ arctic, The Interaction between the Atmosphere and Frozen Surfaces in Polar Regions: An OASIS Expert Workshop with modelers and laboratory chemists, 19-20 September, 2005.
 146. Garcia Munoz, A., J. C. McConnell, and J. J. Caldwell, Hot Jupiters: how rapidly are they evaporating?, 37th Annual Meeting, DPS, Cambridge, 4-9 September, 2005
 147. Moudden, Y. and J. C. McConnell, The Canadian weather forecast model is forecasting weather on Mars, 39th CMOS Congress, June, Vancouver, 2005.
 148. Plummer, D., S. Beagley, J. de Grandpre, and J. C. McConnell, Simulation of tropospheric chemistry in the Canadian Middle Atmosphere Model, 39th CMOS Congress, June, Vancouver, 2005
 149. McConnell, J. C. et al. (Invited), GEM-AQ : A multiscale 3D model for chemical weather, 39th CMOS Congress, June, Vancouver, 2005.
 150. McConnell, J. C. and P. Bernath et al., The Atmospheric Chemistry Experiment (ACE): Mission overview, 39th CMOS Congress, June, Vancouver, 2005.
 151. Buontempo, C., J. C. McConnell, J. W. Kaminski, L. Neary, and A. Lupu, The effect of parameterized convection on the vertical distribution of trace gases, 39th CMOS Congress, June, Vancouver, 2005.
 152. McConnell, J. C., Y. Moudden, A. Akingunola, A. Garcia Munoz, and J. W. Kaminski, Atmospheric Chemistry on Mars using the Global Mars Multiscale Model (GM3), 39th CMOS Congress, June, Vancouver, 2005.
 153. Beagley, S. R., J. C. McConnell, K. Semeniuk, J. de Grandpre and V. Fomichev, Simulating heterogenous stratospheric ozone loss in a GCM: continuing studies using CMAM, 39th CMOS Congress, June, Vancouver, 2005.
 154. Moudden, Y. and J. C. McConnell, GM3: A model for weather and climate on Mars, CSEW5, St Hubert, Quebec, 12-13th May, 2005.
 155. Garcia Munoz, A. and J. C. McConnell, Composition of the lower and upper atmosphere of Mars (photochemical modelling), CSEW5, St Hubert, Quebec, 12-13th May, 2005. (Poster)
 156. Garcia Munoz, A. and J. C. McConnell, Aeronomy of 'hot Jupiters', CSEW5, St Hubert, Quebec, 12-13th May, 2005. (Poster)
 157. Akingulola, A. and J. C. McConnell, Water in Mars Atmosphere-Subsurface Model, CSEW5, St Hubert, Quebec, 12-13th May, 2005. (Poster)
 158. McConnell, J. C. (invited), MAQNET modelling and emissions: (Modelling tools for the next 10 years – GEM and its relations and requirements for emissions), Joint NPEG-CFCAS workshop, 10th June, Ottawa, 2005.
 159. McConnell, J. C., J. W. Kaminski, and R. Menard, (invited) High Resolution Modelling tools for the next 10 years – GEM and its relations, 5th Canadian Atmospheric Environment Workshop, Banff, 5-7th May, 2005.
 160. McConnell, J.C., Climate Modelling and greenhouse gases, Canadian Workshop on Carbon Cycle Science, MSC, 5th May, 2005

161. Buontempo, C.; Jiang, J.; McConnell, J.; Kaminski, J.; Neary, L.; Lupu, A. Clouds and water in the tropical tropopause layer: a comparison between satellite data and GEM-AQ simulations, EGU, April, Vienna, 2005. (Poster)
162. Semeniuk, K.; McConnell, J. C.; Jackman, C. H., Simulation of the October-November 2003 Solar Proton Related Events in the CMAM GCM, EGU, April, Vienna, 2005.
163. Jin, J.; Semeniuk, K.; Josson, A.; Beagley, S.; **McConnell, J.**; Sobieraj, T.; [ACE and Odin Team](#), Ozone Loss in Arctic and Antarctic Winters in 2004 from ACE EGU, April, Vienna, 2005.
164. Jin, J.; Semeniuk, K.; Josson, A.; Beagley, S.; McConnell, J.; [ACE and Odin team](#) Strato-mesospheric CO measurements from ACE-FTS and Odin/SMR and a comparison with CMAM, a middle atmosphere model, EGU, April, Vienna, 2005.
165. Kaminski, J.W.; Menard, R.; Charron, M.; Jarosz, J.; Semeniuk, K.; Neary, L.; McConnell, J.C.; Struzewska, J. Development of GEM-strato with on-line chemistry – initial model validation EGU, April, Vienna, 2005. (Poster)
166. Menard, R.; Fonteyn, D.; Gauthier, P.; Charron, M.; Robichaud, A.; McConnell, J.C.; **Kaminski, J.W.**, Chemical-dynamical coupling in data assimilation EGU, April, Vienna, 2005.
167. Buontempo, C., J. C. McConnell, J. W. Kaminski, L. Neary, D. Jones, J. Jiang, Q. Li, A. Lupu, M. Filipiak, CO concentration in the upper troposphere: a comparison between satellite measurements and GEM-AQ simulations EGU, April, Vienna, 2005. (Poster)
168. Toyota, K. and J. C. McConnell, and A. Akingunola, One-dimensional model of air-snowpack chemical interactions: Implications for Arctic bromine explosion and surface ozone depletions, EGU, April, Vienna, 2005. (Poster)
169. Wu, H, and J. C. McConnell, Impacts of an Improved Isoprene Chemical Scheme in a 3D Air Quality Model, GEM-AQ, EGU, April, Vienna, 2005. (Poster)
170. McConnell, J. C. Air Quality on Mars using the Global Mars Multiscale Model (GM3), Seminar, York University, April, 2005.
171. McConnell, J. C., Weather Forecasting on Mars, talk to Atmospheric Science Club, March, 2005.
172. McConnell, J. C. “Weather forecasting on Mars”, Science Teachers Association of Ontario, 11-12 Nov, 2004
173. McConnell, J. C., “Climate and climate Change: A scientific perspective”, Science Teachers Association of Ontario, 11-12 Nov, 2004
174. Kaminski, J. W. L. Neary, A. Lupu, C. Buontempo, J. C. McConnell*, U. Lohmann, G. B. Lesins, Program for study of the Potential Impact of Aviation Emissions including Aerosols on the Upper Troposphere Lower Stratosphere Region using GEM-AQ, poster at COST723 workshop on “Cirrus clouds and supersaturation”, 11-12th October, 2004.
175. McConnell, J. C. Chemical distribution of species on Mars using the Global Mars Multiscale Model (GM3), seminar at Boston University, Center for Space Physics, 21st October, 2004.
176. Kaminski, J. W., A. Lupu, L. Neary, J. C. McConnell, D. Chartrand, GEM-AQ simulation of Arctic air quality – BrO and Hg transport and chemistry, 8th International Global Chemistry conference, 4-9th September, Christchurch, New Zealand, 2004.
177. Kaminski, J. W., J. Struzewska, J. C. McConnell, L. Neary, High Resolution air quality simulations with MC2-AQ – Model evaluation for Escompte, poster, 8th

- International Global Chemistry conference, 4-9th September, Christchurch, New Zealand, 2004.
178. Lupu, A., L. Neary, J. W. Kaminski, J. C. McConnell, N. O'Neill, S. Thulasiraman, A. Royer, M. Aube, Multiscale modelling of the July 2002 Quebec forest fires – model results and comparison with observations, poster, 8th International Global Chemistry conference, 4-9th September, Christchurch, New Zealand, 2004.
179. Bottenheim, J. W., J. Abbatt, H. Beine, T. Berg, K. Bigg, F. Domine, C. Leck, S. Lindberg, P. Matrai, R. MacDonald, J. McConnell, U. Platt, O. Raspopov, P. Shepson, O. Shumibv, J. Stutz, E. Wolf, OASIS: Ocean-Atmosphere-Sea Ice-Snowpack interactions in Polar regions, AGU (U01 session), Montreal, 2004.
180. Melo, S. M. L., K. Strong, R. P. Lowe, S. Argal, K. Gilbert, J. McConnell, A. Garcia Munoz, I. C. McDade, N. Rowlands, T. Slanger, D. Huestis, and M. J. Taylor, Using airglow measurements to observe gravity waves in the Martian atmosphere, COSPAR, 18-25th July, Paris, 2004.
181. Garcia Munoz, A., J.C. McConnell*, I. C. McDade and S. Melo, OH Meinel, O₂ Atmospheric bands and O(1D-1S) greenline airglow on Mars, COSPAR, 18-25th July, Paris, 2004.
182. Moudden, Y., J. C McConnell, A. Akingunola, High resolution meteorological results using the Global Mars Multiscale Model (G3M), COSPAR, 18-25th July, Paris, 2004.
183. Moudden, Y., A. Garcia Munoz, J. C McConnell*, J. Kaminski, I. Verkhovsky, M. Lopez-Valverde, M. Lopez-Puertas, A. Akingunola, V. Fomichev, Preliminary ozone distribution on Mars using the Global Mars Multiscale Model (G3M), COSPAR, 18-25th July, Paris, 2004.
184. McConnell, J. C., Y. Moudden, A. Garcia Munoz, J. Kaminski, I. Verkhovsky, , M. A. Lopez-Valverde, Manuel Lopez-Puertas, A. Akingunola, V. Fomichev, Atmospheric chemistry on Mars using the Global Mars Multiscale Model (G3M), AGU (Montreal), 2004.
185. Moudden, Y., A. Garcia Munoz, J. C. McConnell, A. Akingunola, J. Kaminski, I. Verkhovsky, Atmospheric chemistry results using a Mars Global Multiscale Model (MGMM), Poster, AGU (Montreal), 2004.
186. O'Neill, N. T., S. Thulasiraman, B. N. Holben, M. Aubé, J. C. McConnell, R. Menard, A. Royer, J. W. Kaminski, A. Lupu, L. Neary, Comparative evaluation of aerosol dynamics models using aerosol optical observations of Boreal smoke events, AGU (Montreal), 2004.
187. Melo, S. M. L. K. Strong, R. P. Lowe, S. Argal, K. Gilbert, J. McConnell, A. Garcia Munoz, I. C. McDade, N. Rowlands, T. Slanger, D. Huestis, and M. J. Taylor, Airglow Imaging Systems for Gravity Waves Observations at the Martian Atmosphere, AGU (Montreal), 2004.
188. McConnell, J. C., The atmosphere of Mars, Mars Day @ York U, 17th February, 2004.
189. Thulasiraman, S., N. T. O'Neil, S. L. Gong, J. C. McConnell. L. Neary, J. Kaminski, A. Lupu and A. Royer, Validation of modelled global aerosol optical depths using Sun-Photometry and a case study of Quebec Forest Fires using GEM-AQ model, 13th National Space Science Symposium (NSSS-2004), Mahatma Gandhi University, Kottayam, India, February 17-20, 2004.

190. Moudden, Y. and J. C. McConnell, A Mars global multiscale model: M-GM, The Third International Conference on Mars Polar Science and Exploration (Poster), 13-17th October, Banff, 2003.
191. Ward, W.E., J. C. McConnell*, M. Rowlands, S. Wang, W.A. Gault, G.G. Shepherd, I.C. McDade, D. Michelangeli, C. Parkinson, and J. Caldwell, DYNAMO, an imagining interferometer for satellite observations of wind and temperature on Mars, Extended abstract and Poster, Mars Atmospheric workshop, Granada, January, 2003.
192. Strong*, K. et al and the ODIN science team and the Mantra 2002 Science Team, Comparison of stratospheric measurements from the September 3rd 2002, Mantra Balloon flight with ODIN and ENVISAT data, EGS-AGU-EGU Joint assembly, Nice, 6-11 April, 2003
193. Toohey, M. et al, Retrieval of trace gas profiles from a low resolution emission radiometer flown on the Mantra 2002 Balloon mission, EGS-AGU-EGU Joint assembly, Nice, 6-11 April, 2003.
194. Drummond, J.R. et al The Mars aerosol and radiative gas observer (MARGO) for the Artemis Mars mission, 12th CASI Conf Astron. – ASTRO 2002, 12-14 Nov., Ottawa, 2002.
195. Drummond, J.R., et al., Canadian contributions to the MARVEL Mars mission proposal, 12th CASI Conf Astron. – ASTRO 2002, 12-14 Nov., Ottawa, 2002.
196. McConnell*, J. C., (invited) Multiscale air quality modeling: A high resolution regional domain nested in a global model, Workshop of Chemical Weather Forecasting and air pollution monitoring with satellite remote sensing, Groundbased, balloon-borne etc, atmospheric measurements and numerical modelling, 7-8 May, DLR, Germany, 2002.
197. Majeed, T., J.C. McConnell, G.R. Gladstone, R. Link, Vibrationally excited H₂ in Triton's thermosphere, EGS, April, Nice, 2002.
198. Prangé, R., L. Pallier, L. Connerney, J.E.P. Courtin, J. C. McConnell, C. Parkinson, The far FUV aurora of Saturn, EGS, April, Nice, 2002.
199. McConnell*, J.C., J. Kaminski, L. Neary, and the MAQNET team, Multiscale air quality modelling: high resolution nested in a global domain, EGS, 6-11 April, 2002.
200. Plummer, D. A., J.C. McConnell*, S.R. Beagley, J. de Grandpre, Development of tropospheric chemistry in the Canadian Middle Atmospheric Model, EGS, April, 2002.
201. McConnell, J.C. (Invited), "Where we have come from: The 3rd workshop recommendations", 15-17 May, CSA 4th Environ. Workshop, UWO, 2002.
202. Prangé, R., L. Pallier, L. Connerney, J.E.P. Courtin, J. C. McConnell, C. Parkinson, Dynamical changes in the FUV aurora of Saturn, DPS/AAS meeting, New Orleans, November, 2001.
203. McConnell, J.C., "A Martian GCM with interactive Chemistry", combined Atmospheric and Geological Mission to Mars, Workshop, 2-3 March, UT, Toronto, 2001.
204. Ward*, W.E., W.A. Gault, M. Rowlands, S. Wang, G.G. Shepherd, I.C. McDade, J. C. McConnell, D. Michelangeli, C. Parkinson, and J. Caldwell, An imagining interferometer for satellite observations of wind and temperature on Mars, the **Dynamics and Atmosphere Mars Observer (DYNAMO)**, Extended abstract, SPIE meeting, 2002.
205. Majeed*, T., J.H. Waite, S.W. Bougher, G.R. Gladstone, R.V. Yelle, J.C. McConnell, The ionospheres of the giant planets, COSPAR, 10-19th October, 2002.

206. Parkinson*, C. D., J. C. McConnell, L. Ben Jaffel, Deuterated ethane in the Jovian thermosphere (Poster), 34th DPS/AAS meeting, 6-11th October, Birmingham, Alabama, 2002.
207. Hipkin, V. J., J.R. Drummond, C.T. McElroy, K. Strong, J. Abbatt, B.M. Quine, S.M.L. Melo, J.J. Caldwell, J.C. McConnell*, D.V. Michelangeli, P. Bernath, J. Sloan, W. Ward, B. Tolton, The Mars Aerosol and Radiative Gas Observer (MARGO) (Poster), 34th DPS/AAS meeting, 6-11th October, Birmingham, Alabama, 2002.
208. Missing data, CMOS 2003, 2002, 2001, IUGG2003!
209. Kaminski, J. W., J. C. McConnell*, D. A. Plummer, L. Neary, Application of MC2-AQ to multiscale air quality modelling, QOS, July, 2000.
210. Kaminski, J. W., J. C. McConnell*, P. Gauthier, G. Brunet, S. Pellerin, Tropospheric chemical modelling and MOPITT data assimilation, QOS, 2000.
211. Kaminski, J. W., J. C. McConnell*, P. Gauthier, G. Brunet, S. Pellerin, Stratospheric chemical modelling and data assimilation of ODIN measurements, QOS, July, 2000.
212. Kaminski*, J. W., J. C. McConnell and J. Drummond, Multiscale air quality modelling and comparison with satellite observations, COSPAR, July, 2000.
213. Drummond*, J. R., G. P. Brasseur, J. C. Gille, J. Wang, G. R. Davis, J. C. McConnell, G. D. Peskett, H. G. Reichle, Jr., N. Roulet, First results from the Measurements Of Pollution In The Troposphere (MOPITT) Instrument: Carbon monoxide and methane measurements, COSPAR, Warsaw, 2000.
214. Fu*, C., C. McLandress, and J. C. McConnell, Impact of diurnal tides on ozone density and green line emission in the Canadian Middle Atmosphere Model, Western Pacific Geophysics Meeting, Tokyo, Japan, June 27-30, 2000.
215. Pathak*, J., E. M. J. Templeton, J. C. McConnell, M. Little, Modeling the impact of subsonic aircraft NOx emissions on tropospheric ozone using a 3-D global chemical transport model, Atmospheric Effects of Aviation, 4-9 June, Snowmass, CO, 2000.
216. Majeed*, T., J. C. McConnell and R. Link, Triton's ionosphere: Impact of N₂ vibrational excitation, Spring AGU, Washington, 2000.
217. The Canadian Middle Atmosphere Model, at the Fourth Workshop on the Northern Regional Aerosol Climate Model, at MSC, Downsview, 1-2 March, 2000.
218. Chemistry in the CMAM from the troposphere to the thermosphere, CMAM User's Workshop, December, 1999.
219. Kaminski*, J. W., J. C. McConnell, P. Gauthier, G. Brunet, and S. Pellerin, Chemical modelling and MOPITT data assimilation, Workshop on Chemical Data Assimilation and Applications to Satellite Observations, NCAR, Boulder, November 8-9, 1999.
220. Kaminski*, J. W., J. C. McConnell, P. Gauthier, G. Brunet, and S. Pellerin, Chemical modelling and ODIN data assimilation, Workshop on Chemical Data Assimilation and Applications to Satellite Observations, NCAR, Boulder, November 8-9, 1999.
221. Plummer*, D. et al., Testing of the Toronto emission inventory, CMOS, Montreal, 31st May - 4th June, 1999.
222. Plummer*, D. et al., Plans for tropospheric chemistry in the Canadian Middle Atmosphere Model, CMOS, Montreal, 31st May - 4th June, 1999.

223. Jiang, J., D. Chartrand*, J-P. Blanchet, S. Beagley, J. C. McConnell, Effect of the Pinatubo Aerosol Loading on Stratospheric Ozone as Modeled by Canadian Middle Atmospheric Model, CMOS, Montreal, 31st May - 4th June, 1999.
224. Jiang*, J., J-P. Blanchet, S. Beagley, and J.C. McConnell, A Simulation of Size-Segregated Sulphate Aerosols of Volcanic Origins in the Stratosphere Using the CMAM, CMOS, Montreal, 31st May - 4th June, 1999.
225. Chartrand*, D. J., J. C. McConnell, E. M. J. Templeton, Sensitivity of modeled ozone depletion to Polar Stratospheric Cloud composition, CMOS, Montreal, 31st May - 4th June, 1999.
226. Kaminski*, J. W., J. C. McConnell, P. Gauthier, G. Brunet and S. Pellerin, Towards an operational assimilation of ODIN ozone data in the Canadian weather forecast model with chemistry, 3rd WMO International Symposium on Assimilation of Observations in Meteorology and Oceanography, Québec City, 7-11th June, 1999.
227. Brunet*, G., P.-A. Michelangeli, S. Pellerin, J. C. McConnell, J. W. Kaminski, Estimating the temporal variability of ozone and its sources in the Canadian ozone 3D-VAR data assimilation system, 3rd WMO International Symposium on Assimilation of Observations in Meteorology and Oceanography, Québec City, 7-11th June, 1999.
228. Fu*, C., V. Fomichev, J. de Grandpré, J. C. McConnell, and S. R. Beagley, Impacts of modified solar and chemical heating on the Canadian middle atmosphere model, IUGG, Birmingham, 18-30th July, 1999.
229. Ward*, W. E., V.I. Fomichev, S. R. Beagley, C. McLandress, J. C. McConnell, N.A. McFarlane, The Extended Canadian Middle Atmosphere Model: First Results, IUGG, Birmingham, 18-30th July, 1999.
230. Strong*, K., M.R. Bassford, D. Chartrand, J. R. Drummond, P. Fogal, J. C. McConnell, C. T. McElroy, F. J. Murcray, B. Quine, B. H. Solheim, D. Sommerfeldt, MANTRA - A Balloon Mission to Study the Odd-Nitrogen Budget of the Stratosphere, AGU, Boston, 31st May - 4th June, 1999.
231. McConnell, J.C., The Canadian MAM project, CRC, Monash University, Melbourne, 25th February, 1999.
232. McConnell, J.C., Talks at CSIRO, February, 1999.
233. McConnell*, J.C., J. W. Kaminski, G. Brunet, P. Gautier, and S. Pellerin, Assimilation of Odin ozone data in the CMC weather forecast model with chemistry: A feasibility study, Invited talk at the Workshop on Chemical Data Assimilation, KNMI, de Bilt, 9-10 December, 1998.
234. Grandpré, J., S. R. Beagley, J. C. McConnell and W. J. Sandilands, On the climatology of atmospheric constituents in the middle atmosphere, CMOS, Dartmouth, June, 1998.
235. Grandpré, J., J. C. McConnell, S. R. Beagley, and D. Chartrand, Aircraft emission and its potential impact on the middle atmosphere ozone photochemistry, CMOS, Dartmouth, June, 1998.
236. GMAC talk at UT, 1997
237. CMOS talks, 1997
238. McLinden, C.A., J.C. McConnell, E. Griffioen, and C.T. McElroy, A comparison of model calculations of polarized radiation in the stratosphere with Sunphotometer measurements during the SPADE Campaign, IUGG, 2-14 July, 1995.

239. Kaminski, J.W., J.C. McConnell, E.M.J. Templeton, J. de Grandpré, S.R. Beagley, Possible impacts of subsonics on ozone levels in the tropospheric and lower stratosphere, IUGG, 2-14 July, Boulder, 1995.
240. McConnell, J.C., E.M.J. Templeton, J. de Grandpré, S.R. Beagley, J.W. Kaminski, Tropospheric Distributions of NMHC using a 3-D SL Chemical Transport Model and CMC objectively analysed meteorological data, IUGG, 2-14 July, Boulder, 1995.
241. McConnell, J.C., J.W. Sandilands, J. de Grand pré, S.R. Beagley, Chemistry in the Canadian Middle Atmosphere Climate model, IUGG, 2-14 July, Boulder, 1995.
242. *McConnell, J.C., Tropospheric Polar Ozone chemistry, IUGG, 2-14 July, Boulder, 1995.
243. Templeton, E.M.J., J.C. McConnell, S.R. Beagley, J. de Grandpré and J.W. Kaminski, Tropospheric Distributions of NMHC in Winter Using a 3-D SL Chemical Transport Model and CMC objectively analysed meteorological data, CMOS congress, BC., 29 May-2 June, 1995
244. Sandilands, J.W., J. de Grand pré, J.C. McConnell, S.R. Beagley, The Canadian Middle Atmosphere Model: The Chemistry Module, CMOS congress, BC., 29 May-2 June, 1995.
245. McLinden, C.A., J.C. McConnell, E.Griffioen, C.T. McElroy, A Comparison of SunPhotoSpectrometer Measurements Obtained During the SPADE Campaign With Model Calculations of Polarized Radiation in the Stratosphere, Spring AGU, Baltimore, 1995
246. Sandilands, J.W., S.R.Beagley, M.Danilin, J. de Grandpré, J.C. McConnell, Development of a Stratospheric Chemistry Module for a Middle Atmosphere General Circulation model, Fall AGU, San Francisco, Dec., 1994.
247. Templeton,E.M.J., J. McConnell, S.R. Beagley, J. de Grandpré, J.W. Kaminski, Tropospheric Distributions of NMHC in Winter and Spring Using a 3-D SL Chemical Transport Model and CMC objectively analysed meteorological data, Fall AGU, Dec., 1994.
248. Tang, T.C. and J.C. McConnell, Behaviour of hydrocarbons during polar sunrise in the Arctic, Fall AGU, Dec., 1994.
249. Sandilands, J.W., J.W. Kaminski, H. Ritchie, J.C. McConnell and M.Yu. Danilin, Inclusion of Chemistry in the Canadian Global Spectral Forecast Model, 28th CMOS congress, Ottawa, 1994
250. Kaminski, J. W., J.W. Sandilands, J.C. McConnell, and Michael Yu. Danilin, A Study of winter Arctic Polar Chemistry with a 3-D Chemical Transport Model, 28th CMOS congress, Ottawa, 1994
251. McLinden, C., J.C. McConnell, Erik Griffioen, Tom McElroy, Analysis of scattered polarized light in the stratosphere to deduce aerosol properties and calculate J values, 28th CMOS congress, Ottawa, 1994
252. McElroy, C.T., J.C. McConnell, and M.J. Prather, The Composition and Photodissociative Flux Measurement as flown on the NASA ER-2 High-altitude Research Aircraft 28th CMOS congress, Ottawa, 1994
253. Danilin, M. Yu., and J.C. McConnell, Model simulations of heterogeneous reactions in sulphate aerosol and PSC particles: A sensitivity study, 28th CMOS congress, Ottawa, 1994

254. Llewellyn, E.J., W.S.C. Brooks, W.F.J. Evans, R.L. Gattinger, J.C. McConnell, I.C. McDade and B.H. Solheim. A Satellite for Stratospheric and Mesospheric Studies, 28th CMOS congress, Ottawa, 1994
255. McConnell, J.C., E.M. Templeton, J. Kaminski, Modelling tropospheric ozone using a global 3-D chemical transport model, 28th CMOS congress, Ottawa, 1994
256. Tang, A., J.C. McConnell, The relative roles of bromine and chlorine in polar sunrise depletion of tropospheric ozone. 28th CMOS congress, Ottawa, 1994
257. McConnell. J.C., Modelling polar sunrise decrease of ozone with halogen chemistry, AGU, 6-10 December, 1993.
258. Griffioen, E., J.C. McConnell, D. Rego, R. Prangé, V. Dols, The effects of 2-D radiative transfer spatial broadening on Jovian Lyman alpha aurorae, Division of Planetary Sciences, AAS, 1822 October, 1993
259. McConnell. J.C., S. Miller, R. Prangé, H₃⁺ rovibrational temperatures at mid-latitudes on Jupiter, Division of Planetary Sciences, AAS, 1822 October, 1993
260. Plummer, D., J. McConnell, P. Shepson, D. Hastie, and H. Niki, Modelling of ozone formation at a rural site in Southern Ontario, Air and Waste Management Association, Regional Photochemical measurement and Modelling Studies, 7-12 November, 1993
261. Balaji, V., S.R. Beagley and J.C. McConnell, Workshop presentation to World Climate Research program, Hyannis, 1993.
262. Kaminski, J., J.C. McConnell, and E.M.J. Templeton, Ozone depletion and development of enhanced ClO during the 1991-92 Arctic winter using a 3-D CTM, 27th Annual CMOS (Canadian Meteorological and Oceanographic Society) Congress, 8-11 June, 1993.
263. Beagley, S. R., J. de Grandpré, J.C. McConnell, N. McFarlane and R. Laprise, Large scale transport studies: A radon and lead experiment, 27th Annual CMOS (Canadian Meteorological and Oceanographic Society) Congress, 8-11 June, 1993.
264. Beagley, S.R., J. de Grandpré, J.C. McConnell, N. McFarlane and R. Laprise, Modelling radon and lead in the AYCG model, American Geophysical Union, Montreal, 12-16th May, 1992.
265. Sandilands, J.W., J.W. Kaminski, and J.C. McConnell, S.R. Beagley and N. McFarlane, Modelling stratospheric polar ozone using objectively analysed data, American Geophysical Union, Montreal, 12-16th May, 1992.
266. Kaminski, J.W., J.C. McConnell, J.W. Sandilands, and W.F.J. Evans, A 3-D CTM calculation of Arctic ozone depletion using objectively analysed CMC data, American Geophysical Union, Montreal, 12-16th May, 1992.
267. Makar, P.A. and J.C. McConnell, Simulations of isoprene-ozone reactions for a general circulation transport model, Quadrennial Ozone Symposium, June 4-13, 1992.
268. Beagley, S.R., J de Grandpré, J.C. McConnell, N. McFarlane, and R. Laprise, Atmospheric chemistry studies with the AYCG (AES York Chemical General Circulation Model) Model, Quadrennial Ozone Symposium, June 4-13, 1992.
269. Sandilands, J.W., J.W. Kaminski, J.C. McConnell, S.R. Beagley, and N. McFarlane, Modelling stratospheric polar ozone using objectively analysed data, Quadrennial Ozone Symposium, June 4-13, 1992.
270. Blanchette, C. and J.C. McConnell, Modulations of stratospheric ozone by volcanic eruptions, Quadrennial Ozone Symposium, June 4-13, 1992.

271. Kaminski, J.W., J.C. McConnell, and J.W. Sandilands, 3-D CTM calculations of Arctic ozone depletion using objectively analysed CMC data, Quadrennial Ozone Symposium, June 4-13, 1992.
272. McConnell, J.C., J.W. Kaminski and J.W. Sandilands, Results from the York 3-D CTM Arctic and Antarctic scenarios, 26th Annual CMOS (Canadian Meteorological and Oceanographic Society) Congress 8-12 June, 1992.
273. McConnell, J.C., S.R. Beagley, J. de Grandpré, J.W. Kaminski, and N. McFarlane, A 3-D spectral middle atmosphere model, 26th Annual CMOS (Canadian Meteorological and Oceanographic Society) Congress 8-12 June, 1992.
274. Kaminski, J.W., J.C. McConnell and B.A. Boville, A 3-D Stratospheric CTM applied to the Antarctic O₃ Scenario, IAGA, Vienna, 11-24 August, 1991.
275. Shepherd, M.G., J.C. McConnell, W.K. Tobiska, G. Schmidtke, Modelling the 557.7-427.8 nm Auroral Ration for the Energy Budget Campaign, IUGG, Vienna, 11-24 August, 1991.
276. Henderson, G.S., J.C. McConnell, J. Bottenheim and L. Barrie, Heterogeneous Bromine Production and O₃ Depletion in the Arctic Troposphere at Polar Sunrise, IUGG, Vienna, 11-24 August, 1991.
277. McConnell, J.C., Global Sources and Sinks of CO and the role of Hydrocarbon Chemistry, UQAM, August, 1990
278. McConnell, J.C., Voyager Encounter with Neptune, York University, 1989.
279. McConnell, J.C., Atmospheric Change in The Global Context, York University, Science and Prospects for the Future, November 1989.
280. Parkinson, C.D., J.C. McConnell, G.R. Gladstone, Non-Local Perturbation Techniques Applied to Radiative Transfer of Planetary Atmospheres, DASP, V.W.O. 1989.
281. Drummond, J.R., J.C. McConnell, J.C. Gille, G.P. Brasseur, Global Measurements of Carbon Monoxide Using a Length-Modulated Radiometer, IAMAP, Reading, July, 1989.
282. McConnell, J.C., J.R. Drummond, J.C. Gille and G.P. Brasseur, An LMR/PRM Instrument Design for Tropospheric CO Measurement on the Polar Orbiting Platform of EOS, CMOS, Rimouski, Quebec, Canada, June 1989.
283. Majeed, T., and J.C. McConnell, Ionospheres of Jupiter and Saturn, DASP, University of Western Ontario, February, 1989 .
284. Henderson, G.S., J.C. McConnell, J. Bottenheim and L. Barrie, Arctic Sunrise O₃ Depletion: A possible Scenario with Bromine Chemistry, CMOS, Rimouski, Quebec, June 1989.
285. McConnell, J.C., G.S. Henderson, J. Bottenheim and L. Barrie, A 1-D Boundary Chemistry Model: A Tool for Emfs Measurement Program Analysis, CMOS, Rimouski, Quebec, June 1989.
286. Majeed, T., J.C. McConnell, R.V. Yelle, A Time Dependent Model for Saturn's Ionosphere, Austin, Texas, November 1988.
287. Henderson*, G.S., W.F.J. Evans and J.C. McConnell, 1-D model simulations of Antarctic ozone during the astral spring, Inter. Ozone Symposium, August, Gottingen, 1988.
288. Majeed, T., J.C. McConnell and R.V. Yelle*, Diurnal variation of electron densities on Saturn, Spring AGU, Baltimore, 1988.

289. Majeed, T., J.C. McConnell and R. V. Yelle, The variation of the ionospheric densities on Saturn, Spring, AGU, 1988.
290. Majeed, T., J.C. McConnell, and R.V. Yelle, Vibrationally excited H₂ in the upper atmosphere of Saturn, COSPAR, Helsinki, July, 1988.
291. Resonance line dayglow emissions on earth and Jupiter, Gladstone, G. R., Skinner, T. E., McConnell, J.C., Link, R., and Chakrabarti, S., Fall AGU, San Francisco, 1987.
292. The role of fluorescence in the dayglow spectrum of the outer planets, Yelle, R.V. and McConnell, J.C., DPS of the AAS, Pasadena, Nov, 1987.
293. Eddy coefficients on Saturn from He 584Å data: A reassessment, Parkinson, C., McConnell, J.C., and Gladstone, G.R., DPS of AAS, Pasadena, Nov., 1987.
294. Vibrational temperatures in the thermospheres of Saturn, Majeed, T., J.C. McConnell, and R.V. Yelle, DPS of AAS, Pasadena, Nov., 1987.
295. Model Simulations of anomalies in ozone and Nitrogen dioxide over the polar vortex, W.F.J. Evans, B.W. Boville, G.S. Henderson and J.C. McConnell, American Meteorological Society, Baltimore, March, 1987.
296. The Impact of Very Slow H₃⁺ Recombination on the Jovian Ionosphere, T. Majeed and J.C. McConnell, IUGG, Vancouver, Aug., 1987.
297. An Analysis of Atomic Oxygen EUV Emissions in the Sunlit Dayside Aurora, R. Link, S. Chakrabarti, G.R. Gladstone and J.C. McConnell, IGA, Vancouver, 1987.
298. A Preliminary Analysis of Polar Cap Arc EUV Aurora, G.R. Gladstone, R. Link, S. Chakrabarti and J.C. McConnell, I.G.A., Vancouver, Aug. 1987.
299. The Impact of Very Slow H₃⁺ Recombination on the Jovian Ionosphere, T. Majeed and J.C. McConnell, IUGG, Vancouver, Aug., 1987.
300. An Analysis of Atomic Oxygen EUV Emissions in the Sunlit Dayside Aurora, R. Link, S. Chakrabarti, G.R. Gladstone and J.C. McConnell, IGA, Vancouver, 1987.
301. A Preliminary Analysis of Polar Cap Arc EUV Aurora, G.R. Gladstone, R. Link, S. Chakrabarti and J.C. McConnell, I.G.A., Vancouver, Aug. 1987.
302. Model simulations of anomalies in ozone and nitrogen dioxide over the polar vortex, W.F.J. Evans, B.W. Boville, G.S. Henderson and J.C. McConnell, American Meteorological Society, Baltimore, March, 1987.
303. A Reexamination of Rocket Measurements of the OI and N₂ UV Airglow, S. Chakrabarti, G.R. Gladstone, R. Link and J.C. McConnell, AGU, Dec. 1986.
304. Analysis of the OI 989 and 1173 Å Airglow Emission, G.R. Gladstone, R. Link, J.C. McConnell and S. Chakrabarti, AGU, Dec. 1986.
305. Atomic Oxygen densities inferred from OI EUV measurements, R. Link, G.R. Gladstone, J.C. McConnell and S. Chakrabarti, Boulder meeting, Dec, 1986.
306. Chemical and Dynamical Effects in the Antarctic Ozone Anomaly, W.F.J. Evans, J.C. McConnell, B.W. Boville and G.S. Henderson, Spring AGU, Baltimore, May, 1986.
307. Voyager encounter with Uranus, (Invited review) York University, 1986.
308. The Saturnian Upper Ionosphere: Effects of H₃⁺ recombination and H₂O, T. Majeed and J.C. McConnell. Spring AGU, Baltimore, May, 1986.
309. OH response to partial Solar Eclipse, G.S. Henderson and J.C. McConnell, Spring AGU, Baltimore, May, 1986.
310. The ultraviolet reflection spectrum of Uranus, J.C. McConnell, R.V. Yelle, D.F. Strobel, D.E. Shemansky and Y. Yung, DPS meeting in Paris, November, 1986.

311. Impact of the electroglow ionization source on the upper ionospheres of the outer planets, T. Majeed and J.C. McConnell, D. Planet. Sciences of AAS, Paris, Nov., 1986.
312. Analysis of Satellite Observations of the OI EUV dayglow, R. Link, S. Chakrabarti, G.R. Gladstone and J.C. McConnell, AGU, Dec., 1985.
313. The atmospheres of Jupiter and Saturn (invited review) IAGA, Prague, August 1985.
314. Preliminary report on an attempt to measure O(³P), N(⁴S) and N(²D) in the lower thermosphere, W.H. Morrow, M.L. Morrow and J.C. McConnell. AGU, Dec, 1984.
315. Disparity between models and measurements of OI EUV emissions, J.C. McConnell, G.R. Gladstone, R. Link and S. Chakrabarti. AGU, Dec. 1984.
316. Two-dimensional Radiative Transfer of OI 1304, G.R. Gladstone and J.C. McConnell, AGU. San Francisco, Dec., 1983.
317. Satellite Observations and modelling of the UV spectrum of the dayside aurora, J.C. McConnell, R. Link, G.R. Gladstone, and S. Chakrabarti, AGU. San Francisco, Dec. 1983.
318. Comparison of the aeronomy of Jupiter, Saturn and Titan (invited review), IAGA, Hamburg, August, 1983.
319. Atomic and Molecular Processes in Planetary Atmospheres (invited review) C.S.P. (Victoria), June, 1983.
320. Upper Atmosphere Physics and Chemistry of the Outer Planets (invited review), 35th Gaseous Electronics Conference, Dallas, October, 1982.
321. A New Look at the Ionosphere of Saturn in Light of the UVS Occultation Results, Saturn Meeting, Tucson, Arizona, May 1982.
322. A Preliminary Look At Saturn's Upper Atmosphere as Determined from the Voyager 2 Solar and Stellar Occultations, G.R. Smith, B.R. Russell, D.E. Shemansky, J.B. Holberg, J.C. McConnell and A.L. Broadfoot, Saturn meeting Tucson, Arizona, May, 1982.
323. Results from the Voyager 1 Ultraviolet Spectrometer Solar Occultation Experiment at Jupiter, G.R. Smith et al., at Division of Planetary Sciences of AAS Meeting in Tucson, Arizona, October, 1980.
324. Voyager UV Spectrometer Observations of He 584 Å Dayglow at Jupiter, A.L. Broadfoot et al., at Division of Planetary Sciences of AAS Meeting in Tucson, Arizona, October, 1980.
325. Overview of the Voyager Ultraviolet Spectrometry Results through Jupiter Encounter, A.L. Broadfoot, et al., at Division of Planetary Sciences of AAS Meeting in Tucson, Arizona, October, 1980.
326. Theoretical Calculations of the Effects of C₂H₂ Absorption on the UV Albedo of Jupiter, G.R. Smith, J.C. McConnell, Division of Planetary Sciences of AAS Meeting in Tucson, Arizona, October, 1980.
327. Theoretical Estimates of C₃ and C₄ Hydrocarbon Abundances on the Outer Planets, Division of Planetary Sciences of AAS Meeting in Tucson, Arizona, October 1980.
328. Stratospheric Constituent Measurements from Project Stratoprobe, W.M.O. Symposium on the Geophysical Aspects and Consequences of Changes in the Composition of the Stratosphere, Toronto, 23-30 June, 1978.
329. Some Considerations Regarding the Possible Pressure Dependence of the NO + HO₂ Reaction Rates, Winter A.G.U. San Francisco, 1978.
330. Implications of Low Stratospheric Hydroxyl Concentrations for CFC and SST Scenario Calculations of Ozone Depletion, Winter A.G.U. San Francisco, 1978.

331. Simulation of Stratoprobe Nitrogen Constituent Measurements with Current Stratospheric Photochemistry, Winter A.G.U. San Francisco, 1978.
332. Planetary Ionospheres, invited talk at Symposium on Planetary Atmospheres, 16-19 August 1977.
333. Rocket-borne photometer measurements of the dayside magnetospheric cleft from Cape Perry, R. Link, J.C. McConnell, G.G. Shepherd, at the 2nd Magnetospheric Cleft Symposium ed., 1976.
334. Image Reconstruction Applied to ISIS Data, E Stathoupolos and J.C. McConnell, Fall A.G.U., 1976.
335. Ultraviolet Airglow Spectra of Venus from Various Model Atmospheres, G.P. Kezwer and J.C. McConnell, Fall A.G.U. 1976.
336. Invited Talk, Advanced Study Institute, Liege, 1974.
337. Stratospheric Chemistry at 3rd meeting of A.E.S. Committee on Stratospheric Pollution, 1974.
338. Some implications of NO_x measurements to the stratospheric O₃ budget, Shaw, Megill, (Utah, S.U.), McConnell, Ridley, Schiff, (York U.) at the AIAA/AMS International Conference on the Environment Impact of Aerospace Operations in the High Atmosphere, Denver, 1973.
339. I.A.G.A. - Aeronomy of the Stratosphere and Mesosphere, Invited Talk, Kyoto 1973
340. Invited Talk, Advanced Study Institute, Orleans, 1972
341. American Geophysical Union, Washington, 1972
342. Vth Arizona Conference on Planetary Atmospheres, Tucson, 1971
343. Atomic and Molecular Collision Conference, Manchester, 1968
344. Conference on Heavy Particle Collisions, Belfast, 1967

BOOKS:

Templeton, E.M.J, J.C. McConnell and A.D. Stauffer, *A Fortran Primer, with Some Useful Algorithms*, Campus Press, 1989.

REPORTS AND PROPOSALS:

PREMIER: Consolidation of Requirements and Synergistic Algorithms (CORSA) Study lead by STFC Rutherford Appleton Laboratory, UK, B. Kerridge, Barry Latter, Richard Siddans, Georgina Miles, Alison Waterfall, Jolyon Reburn, and Chalmers University of Technology, Gothenburg, Sweden, Donal Murtagh, Jo Urban, Patrick Eriksson, Stefan Glossow, and Royal Dutch Meteorological Institute, the Netherlands: Michiel van Weele, Research Centre Jülich, Germany: Martin Riese, Johannes Orphal, Lars Hoffman, Peter Preusse, and Karlsruhe Institute of Technology, Germany: Michael Höpfner, Norbert Glatthor, Felix Friedl-Vallon, Anne Kleinert, University of Oxford, UK: Anu Dudhia; York University, Toronto, Canada: Jack McConnell, Jacek Kaminski, Kirill Semeniuk, Alexander Lupu, 280 Pages, for ESA, Decemver, 2011.

PREMIER – Quantification of Atmospheric Pollution and Climate Aspects, Final Report, AO/1-6340/09/NL/CBI, Date: 4 October 2011, The study was performed on behalf of a consortium led by Research Centre Julich in collaboration with eight partner institutes: Centre national de la

recherche scientifique (CNRSGAME and CNRS-LISA), German Aerospace Center (DLR) Oberpfaffenhofen, Environment Canada, Karlsruhe Institute of Technology (KIT), Royal Netherlands Meteorological Institute (KNMI), York University (Toronto), and WxPrime Corporation (Toronto), Martin Riese, (PI), Barbel Vogel, Jean-Luc Attie, Jerome Barre, Martin Dameris, Gaelle Dufour, Laaziz El Amraoui, Maxim Eremenko, Piers Forster, Louis Garand, Norbert Glatthor, Jean de Grandpre, Michaela Hegglin, Sylvain Heiliette, Michael Höpfner, Lars Hoffmann, Jacek Kaminski, S. Kellmann, M. Kiefer, Paul Konopka, Wiliam Lahoz, Alexandru Lupu, John C. McConnell, Richard Menard, Paul Palmer, Vincent-Henri Peuch, Felix Ploger, Alexandru Rap, Yves J. Rochon, Kirill Semeniuk, Gabi Stiller, Michiel van Weele, Thomas von Clarmann, Jason Wiliams, Yan Yang

1. PHEMOS report, science PI, Phase A study.
2. PHEMOS MRD (Mission requirement Document), Phase A study.
3. PHEMOS SRD (System Requirements Document), Phase A.
4. PHEMOS report, science PI, phase 0
5. PHEMOS URD (User Requirement Document), phase 0 updated in Phase A
6. PREMIER performance analysis study, Consortium, B. J Kerridge, R Siddans, A Waterfall, D. Gerber, B Latter, WJ Reburn, Rutherford Appleton Laboratory, UK, M. Riese, L. Hoffmann, Forschungszentrum Juelich, , Germany, J. Urban, D. Murtagh, Chalmers University, Gothenburg, Sweden, M. Höpfner, H. Fischer, University of Karlsruhe, Germany, A. Dudhia, Oxford University, UK, J. McConnell, K. Semeniuk, A. Lupu, L. Neary, York University, Toronto, Canada, P. Palmer, University of Edinburgh, UK, P. Forster, University of Leeds, UK, ESA Contract: 21808/08/NL/EL, June, 2009.
7. Contribution to “Ozone Science 2007: a Canadian contribution to the twentieth anniversary of the Montreal Protocol. Environment Canada, editors, C.T. McElroy and D. R. Francis, 2007.
8. Contribution to ESA document on Premier, 2007/8.
9. Basseur, Guy, Lead Coordinating author, A Report on the Way Forward Based on the Review of Research Gaps and Priorities, Chapter IV Chemistry and Transport Processes in the Upper Troposphere and Lower Stratosphere, Principal Authors: J. McConnell, D. Toohey, Coordinating Authors: I. Isaksen, J. Rodriguez, Lead Authors: L. Avallone, W. Evans, J. Kaminski, A. Lupu, L. Neary, M. Ross, K. Semeniuk, K. Toyota, Aviation and climate change Initiative (ACCRI), August, 2008.
10. Contribution to ESA document on ACECHEM, 1999
11. McConnell, J.C., D.A. Plummer, J.W. Kaminski, and L. Neary, The ozone monitoring network in SW Ontario: Assessment using MC2-AQ, report for the Ontario Ministry of the Environment, September, 1999.
12. Contributing to Chapter 4 of the IPCC report `Aviation and the Atmosphere'.
13. Contributed to the Canadian Space Agency MAGOG document outlining the future directions in Atmospheric Space Science in Canada.
14. Chartrand, D.J., J.C. McConnell, J. de Grandpré and J.W. Kaminski, MANTRA: Notes on Trends, Internal report for MANTRA balloon flight, 23pp, June 1998.
15. J.C. McConnell, Stratospheric Chemistry, Course notes for “Summer School on the Middle Atmosphere”, held 25-29 August, Cornwall, pp 294-336. March, 1998.
16. Contribution to Chapter 4 of the IPCC report, Aviation and the Atmosphere.

17. Jacob, D.J. et al., S.R. Beagley, J. de Grandpré, et al., Intercomparison of global atmospheric transport models using ^{222}Rn and other short-lived tracers, *J. Geophys. Res.*, **102**, 5953-5970, 1997.- Group Member contribution - not JCMcC.
18. Beagley, S. R., J. de Grandpré, J. C. McConnell, R. Laprise, N. A. McFarlane, and V. Balaji, A study of Radon 222 and Lead 210 using the Canadian CCC GCM II, Internal report, September, 1996.
19. Jiang, J.H., S.R. Beagley, J.C. McConnell, J. de Grandpré, W.F.J. Evans and H.W. Barker, A simulation of the Pinatubo aerosol climatic effects using the Canadian Climate Centre GCM II, Internal report, August, 1996.
20. Blanchette, C. and J. C. McConnell, Impacts of volcanic aerosols on mid-latitudes stratospheric chemistry, Internal report, August, 1996.
21. Contributed to the Canadian Space Agency MAGOG document outlining the future directions in Atmospheric Space Science in Canada.
22. McConnell, J.C., Brief to the House of Commons Sub-Committee on the Environment, April 6, 1992.
23. Mackay, G.I., H.I. Schiff and J.C. McConnell, Compressor Emissions Modeling Study Phase I: Field Measurements and Modeling of NO_2 , NO_x , O_3 and Hydrocarbons Data at Selected Ontario Compressor Sites, submitted to Trans Canada Pipeline, Toronto, Ontario, 1990.
24. Forester, A.J., J.C. McConnell and W.F.J. Evans, An Assessment of the Effect of Halons on the Environment, ARD 89-007, December, 1989.
25. Preparation and submission of proposal entitled "Infrared measurements of Carbon Monoxide profiles in the troposphere" to NRC and NASA for the EOS satellite. Principal Investigator, J. R. Drummond, June 1988.
26. Contribution to the AES report "Stratospheric Ozone Science in Canada: An Agenda for Research and Monitoring," Evans et al, December, 1987.
27. Cloud Radiance Modelling - Phase II, G.R. Gladstone, J.W. Kaminski, R. Link and J.C. McConnell, for A.E.S., 68 pages, Nov. 1984.
28. Some comments on atmospheric modelling in the context of environmental consequences of major nuclear warfare, W.F.J. Evans, J.C. McConnell, R.W. Nicholls and R.Vupputuri, Aug. 1984, prepared for the Royal Society of Canada.
29. Position paper on NO , NO_2 , HNO_3 for NASA workshop on "The State of Knowledge of the Stratosphere" 1979.
30. Problem Areas in Stratospheric-Mesospheric Chemical Rate Data, by subcommittee of AES Advisory Committee on Stratospheric Pollution. W.F.J. Evans, J.C. McConnell and B.A. Ridley, 1979.
31. The Impact of 1,1,1-Trichloroethane on Stratospheric Ozone, for DetriX Chem. Indust., J.C. McConnell and H.I. Schiff, Nov. 1976.
32. Nitric Oxide Measurements in the Stratosphere: A Comparison Using One-dimensional Models, 1974, unpublished manuscript.

STUDENT Theses and Dissertations:

1. Lori L. Neary, PhD, Effects of Deep Convection on Upper Tropospheric Air Composition Using a Multiscale Weather Forecast Model with on-Line Chemistry, May, 2011. (Working in BIRA/Brussels on Mars modelling)

2. Abdulla Al Mamun, MSc, Evaluation of GEMDMv3.3.0 Simulations of Temperature and Water vapor by using the ACE-FTS and MLS Observations, December, 2010. (PhD student at York with me).
3. Farisa Momhameed, MSc, Atmospheric Correction of OMEGA Data from Mars Express to Detect Surface Composition, Sept., 2010. (Currently, working part-time in group)
4. Hao Wu, PhD, Modelling mineral dust lifting and transport in GEM-AQ: Sensitivity studies and comparison with measurements, December, 2009. (currently PDF at LMD, Paris, France.)
5. Ayodeji Akingulola, PhD, The water cycle on Mars using a 3D general circulation model, Oct, 2008. (Currently PDF at Canadian Space Agency, St Hubert, Quebec.)
6. Jianjun Jin, PhD, An Analysis of Middle Atmospheric Chemical Processes and Transport Using SCISAT-1 FTS Data and the Canadian Middle Atmosphere Model, Oct, 2008
7. Nina Ivanis, MSc, (with Richard Leitch), Implementation of a theory-based parameterization of cloud droplet nucleation into the Canadian Aerosol Module, July, 2007.
8. Adam Rosso, M.Sc, A comparison of MGS radio occultation results with GM3, 2007
9. Antonio Garcia Munoz, PhD, I. Airglow on Mars: Model predictions of the O₂ IR atmospheric band at 1.27 μ m, the OH Meinel bands and the OH A-X band system. II. Physical and chemical aeronomy of HD 209458b, June, 2006.
10. Savastiouk Vladimir, Advanced direct-Sun ozone observation modes developed for the Brewer spectrometer, PhD, January, 2006 (with Tom McElroy)
11. de Grandpré, Jean, Climate Modelling of the ozone layer: Processes and Interactions, Ph.D., December, 2005
12. Moudden, Youssef, The global Mars Multiscale Model: A tool for simulation of climate and weather, June, 2005.
13. Magda C. Sadek Little. Modelling tropospheric ozone and related tracers in a 3-D chemical transport model: An investigation of biogenic NO_x and VOC modelling techniques and changing emission scenarios, PhD, 2003.
14. Jose Palala, Inversion of emission sources from measurements (Posthumous) MSc, 2002.
15. Chris Parkinson, Radiative transfer and photochemical studies of outer planets, PhD, 2002.
16. Cynthia Zhang, Semi-annual oscillation in the middle atmosphere: a comparison with CMAM and HALOE measurements, MSc, 2002.
17. Chao Fu, A mesospheric study using the Canadian Middle atmosphere model, PhD, 2002.
18. Jagruti Pathak, 3D global modelling of tropospheric oxidants, PhD, 2002.
19. Apollo Teck Choon Tang, MSc, A computer simulation of polar sunrise ozone depletion in the planetary boundary layer, May, 2000.
20. David Plummer, PhD, On-line chemistry in a mesoscale model: Assessment of the Toronto emission inventory and lake-breeze effects on air quality, February, 1999.
21. Christopher A. McLinden, Observations of Atmospheric Composition from NASA ER-2 Spectroradiometer Measurements, Ph.D., July, 1998. (Joint with Tom McElroy.) PDF with Mike Prather, UCI.

22. Yajnavalkya Bhattacharya, Analysis of occultation experiment from the space shuttle Columbia, MSc, September, 1997. (Joint with T. McElroy.)
23. Jonathan Jiang PhD., Impact of the Pinatubo Aerosol on Climate, (Joint with Wayne Evans,) 1996.
24. David A. Plummer, Modelling of ozone formation at a rural site in southern Ontario, M.Sc., May, 1995.
25. Christian Blanchette, The impact of stratospheric aerosols on stratospheric chemistry, Ph.D., August, 1994.
26. Jacek W. Kaminski, A study of stratospheric chemistry using a three-dimensional global chemical transport model, PhD, January, 1994.
27. Paul A. Makar, A global tropospheric chemistry model using the AES CCC general circulation model, Ph.D., January, 1994.
28. J. Wade Sandilands, A three-dimensional chemical transport model study of the 1991 Antarctic ozone hole using objectively analysed data, M.Sc., 1993.
29. Erik Griffioen, Two-Dimensional radiative transfer of resonance lines in planetary thermospheres, Ph.D., 1993. (Co-supervisor with Gordon Shepherd).
30. Marianna Shepherd, Ph.D., Influence of the Atomic Oxygen Concentration on Emission Ratios in Aurora, 1992.
31. Norman Loeb, M.Sc., A Multispectral Retrieval Technique for Inferring Cloud and Clear Sky Properties over the Ocean from Satellite Measurements, 1992.
32. Tom Nicholls, Ph.D., A Mesoscale Convective System Case Study, 1990 (CRESS acting supervisor).
33. Tariq Majeed, Ph.D., Ionospheric Processes in the Outer Planets, 1990.
34. Richard Link, Dayside Magnetospheric Cleft Auroral Processes, Ph.D., 1982. (jointly with G.G. Shepherd.)
35. Christopher Essex, Radiation as a Thermodynamic Entity, Ph.D., 1982.
36. Glen Kezwer, Calculations of Venus ultraviolet airglow emissions due to carbon monoxide and atomic carbon, Ph.D., 1978.

OTHER ACADEMIC AND RESEARCH ACTIVITIES:

Was part of York Delegation to Korean Universities and Space and Weather Research centres, 17-24th February, 2012; visited Seoul National University, National Institute for Meteorological Research (Seoul), Yonsei University (Seoul), KARI (Korean Aerospace Research Institute), National Meteorological Satellite Center, Korean Astronomy and Space Institute (KASI), I gave about 10 talks on PCW/PHEMOS-WCA, Mars Modelling, and Space weather in Canada.

Collaborative Projects:

Science PI for PHEMOS Phase 0 and A study. Polar Highly Elliptical Molnyia Orbiter Studies is part of possible science studies for the Canadian Polar Communications and Weather (PCW) Satellite system (2 Molnyia 12-hour orbit satellites for Arctic communications) led by ABB Bomem also with participation of COM DEV and universities.

Member of SOIR team (BIRA is the lead) for Mars TGO (Trace Gas Orbiter) 2016. Will contribute Mars GCM studies for design and analysis.

Member of MATMOS (JPL/CSA) team for Mars TGO. Will contribute Mars global and regional GCM studies. (Main Matmos project is now [March, 2012] defunct)

Aerosol CANDAC Project on impact of Boreal burning in Arctic. PI Norm O'Neill, U of Sherbrooke, since 2008.

With Frank Mills of Canberra, Australia organized a Mars session at spring AGU, Toronto, 2009.

Organised a PCW (see above) workshop for the atmospheric and space environment community, York University, 30th January, 2009

Participated on two of CSA's Atmospheric Processes of Climate and its Changes (APOCC) Mission Concept Study teams, MCAP and SOAR, 2009.

With Jon Abbott, Jan Bottenheim organized a workshop, on modelling, measurements and laboratory work at University of Toronto, 2006.

Invited to attend WMO workshop in Geneva for Molniya orbiting satellites, 2007.

Invitation to be on climate panel International Civil Aviation Organization's (ICAO) workshop on Committee on Aviation Environmental Protection (CAEP) Workshop, 29-31st October, 2007 at ICAO headquarters in Montreal.

PI of MAQNet: Multiscale Air Quality Modelling Network, CFCAS funded, 2001-2004 extended to October, 2006

Co-I on ODIN (T. Llewellyn), MOPITT (J. Drummond), ACE (P. Bernath) Satellite projects – all still extant and thriving.

PI of Arctic Chemistry Modeling Project, CFCAS, 2004-2006.

- McConnell was one of the organizers for the “Climate Science Workshop: Regional Climate Modelling Capacity in Ontario” hosted by TRCA and York University, February 5, 2010, Black Creek Pioneer Village, Toronto.
- PCW workshop, York University, 30th January, 2009
- Review and Advisory Committee for 5-year review of the Center for Space Physics at Boston, University, 2nd May, 2008.
- Attendance at WMO workshop in Geneva – 2007
- 3-person (Bottenheim (EC), Abbatt (UT), McConnell (YU) Organizing committee for Arctic workshop, University of Toronto, ~ 2006?
- Invitation to be on climate panel International Civil Aviation Organisation's (ICAO) workshop on Committee on Aviation Environmental Protection (CAEP) Workshop, 29-31st October, 2007 at ICAO headquarters in Montreal.
- PI of MAQNet: Multiscale Air Quality Modelling Network, CFCAS funded, 2001-2004 extended to October, 2006
- Co-I with “The Successor to Measurements Of Pollution In The Troposphere MOPITT-2”, Principal Investigator: James R. Drummond, Department of Physics, University of Toronto.
- PI of Arctic Chemistry Modeling Project, CFCAS, 2004-2006.
- Co-Investigator on Atmospheric Chemistry Experiment (ACE) science team, 1998 - present.
- Co-Investigator on ODIN OSIRIS team, 1994-present.
- Co-Investigator with Canadian Middle Atmosphere Model team, 1995 - present.
- Principal Investigator of NSERC Strategic Grant, Changing Atmospheric Environment: Chemistry and Dynamics in the Troposphere, 1989-1993.
- Co-Investigator on the MOPITT EOS experiment, 1988 to present.
- Co-Investigator on UVS imager for VIKING Satellite. Member of Voyager Ultraviolet Spectroscopy Team, 1972-1991.

- Co-Investigator on Optical Monitor of Auroral Plasma Precipitation (OMAPP). An Imager for Swedish Space Corporation for the Viking Project. Principal Investigator: C.D. Anger, 1980.
- Co-Investigator on Wide Angle Michelson Doppler Imaging Interferometer (WAMDII) Principal Investigator: G.G Shepherd, 1981-1989.
- Co-Investigator on AIRES resonance lamp experiment, In-situ measurement of atomic oxygen in the ground (3P) and metastable $O(^1D)$ states by resonance fluorescence for Project Aires, Principal Investigator: W. Morrow 1982.

Committees and Panels:

- Member of CSA's Canadian Space Exploration Program (CSEP) Planetary Consultation Committee (PCC), March, 2012 to present.
- Member of European Space Agency's Mission Advisory Group (MAG) for Premier Mission, preparation of "Report for Mission Selection", June 2009-March 2013.
- Member of European Space Agency's Mission Advisory Group (MAG) for Premier Mission, preparation of "Report for Assessment", November 2006-February 2009.
- Member of Space Exploration Advisory Committee (SEAC) of the Canadian Space Agency, April 2005 to December 2007.
- Member of Royal Society of Canada's expert panel regarding the socio-economic assessment for the Canada Wide Standards for PM and ozone, September, 1999 to 2001
- Member of European Space Agency's Atmospheric Chemistry Science Preparatory Group, July, 1998 - to 2000.
- Member of National Research Council's (NAS) Panel of the Atmospheric Effects of Aviation (PAEAN), Summer 1998 to summer 1999.
- Member of Chapter 4 team of IPCC special report of "Aviation and the Global Atmosphere", July, 1977 - March, 1999.
- Member of the Solar Terrestrial Relations Advisory Committee for the Canadian Space Agency, 1994-97.
- NSERC Strategic Grant Selection Panel on Environmental Quality, March 12, 1990 – February 28, 1993
- A.E.S. Science Subvention Awards Committee, 1985.
- Canadian Astronomical Society (CASCA) subcommittee on Space Astronomy, 1984 to 1986.
- A.E.S. Stratospheric Pollution Committee, 1974 to 1986.

Editorial Membership:

- Associate Editor of *Journal of Geophysical Research D - Atmosphere*, 1993 – 1996.

Other:

- Poste-Rouge, CNRS, l'Observatoire de Besançon, October - December 1987.
- Poste-Rouge, CNRS, Institut d'Astrophysique Spatiale, October-December, 1990.
- Consultant: West Central Regional Airshed Monitor Program: Alberta, 1993-1994.
- Consultant: Pollution study for Trans-Canada Pipelines.
- Reviewer for *Journal of Geophysical Research*, *Geophysical Research Letters*, *Icarus*, *Atmosphere-Ocean*, *Tellus*, NASA, NSERC, NRC and NERC, NSF.

SABBATICAL LEAVES:

- 1979-1980 - Space Science Institute of the University of Southern California, Tucson, Arizona. The study of ultraviolet airglow from Jupiter and its environs.
- 1987-88 - University of Arizona, Lunar and Planetary Laboratory, Tucson, Arizona (3 months). l'Observatoire de Besançon, Besançon, France (10 months).
- 1999 CSIRO, Lindfield, NSW Australia, Telecommunications and Industrial Physics Department (7 months).
- 2002-2003 York University
- 2011-Jan to 2011-Dec, York University

UNIVERSITY COMMITTEES (Partial List):

Faculty of Pure and Applied Science:

- Committee for Research
- Admissions Committee
- Tenure and Promotion
Chair, 1991

Department of Earth and Atmospheric Science (partial list):

- Curriculum Committee
Chair, 1990-1992
- Ad hoc Tenure and Promotion Committee
Chair, 1992-1993

CRESS:

- Seminar Chair (several years)
- Executive Committee
- Curriculum Committee
Chair, 1991

UNDERGRADUATE TEACHING (last date taught, if recalled!)

EATS 3040 3.0	Atmospheric Dynamics I	2006/7
EATS 4130 3.0	Atmospheric Dynamics II	2006/7/8

EATS 4160 3.0	Climate and Climate Change	2004/5/9/10
EATS 4170 3.0	Modelling Atmospheric Chemistry	1998
EATS 3030 3.0	Atmospheric Radiation and Thermodynamics	2006/7
EATS 2010 3.0	Introduction to Atmospheric Science	F2005
EATS 1010 6.0	Introductory Earth and Atmospheric Science (Atmospheric Science part)	2000
EATS 1011 3.0	Introduction to Atmospheric Science	W2006/8/9/10
NATS1750 6.0	The Earth and Its Atmosphere, Atmospheric Science part)	1998
NATS 1780 3.0	Weather and Climate	1997
ACMS 2010.06	Linear Algebra	
EATS 2110.03	Earth and Atmospheric Mechanics (now called)	
EATS 2470.03	Introduction to solid and fluid mechanics	2005
EATS 2010.06	Understanding the Atmosphere: General Meteorology,	2005
EATS 4060.03	Special Topics on the Atmospheric Environment	
EATS 4230.03	Atmospheric Remote Sensing	
IS 104.2	Elementary Computational Methods - a self-paced course in elementary FORTRAN	
PHY 302.3	Electromagnetics I	
PHY 308.3	Physics of the Atmosphere	
PHY 322.3	Numerical Laboratory	
PHY 422.6	Numerical Laboratory	

GRADUATE TEACHING

ESS 5200 3.0	Atmospheric Dynamics	2006/7/8
ESS 5300C 3.0	Climate and Climate Change	2003
ESS 5202 3.0	Modelling Atmospheric Chemistry	2006
ESS 5230.03	Remote Sensing of Atmospheres	1995/2008 (part)
ESS 5300 3.0	Radiative Transfer	W2006 (plus 1980s)
ESS 5060.03	Aeronomy (Do a 1/5 section each year)	1997
ESS 6060.03	Advanced Topics in Aeronomy	1992
ESS 5300.03	Special Topics: Planetary Atmospheres	1991
ESS 6060.03	Advanced Topics in Aeronomy	1989
PHY 506.3	Aeronomy	1985
PHY 520.3	Earth and Planetary Physics II	1984
PHY 521.3	Radiative Transfer	1988+others
PHY 500.3	Quantum Mechanics I	1973

SUPERVISION:

Current Graduate Students:

1. Abdulla PhD, Biomass burning and the upper troposphere, expected 2014.
2. Di Wu, PhD, Mars, 2012
3. Keh-Harng Feng, started May 2011, Dust lifting on Mars, MSc expected 2013.
4. Farahnaz Rastagar, PhD, Mars, expected fall 2012
5. Jennifer McLarty, PhD, aerosols and clouds, expected 2013.
6. Zhuming Ying, PhD, Modeling Study of Air Pollution in the Mexico City Area, (Working in NCAR, USA working on air quality modelling), submitted.

Post-doctoral Fellows and Research Associates:

- Rodrigo Munoz 6 months 2010
- Carlo Buontempo, April 2004 –2006
- Jerzy Jaroz, June 2004-2006
- Kenjiro Toyoto, June 2004 - present
- Sergei Soldatenko, spring 2002-summer 2003.
- Andreas Jonsson, ~ 2005/6
- Yulia Nelin, summer 2003-Sept2004
- Hosein Shanas, October 2003-Dec 2003
- Kirill Semeniuk, spring 2002-present
- Chao Fu, PDF, Summer 2002-summer, 2004
- David Plummer, March 1999 to 2003. Global tropospheric chemistry in MAM. Part of MAM team.
- Svetlana Soukanova, Accurate SMVGEAR chemical solver for MAM, November 1998 to May 2000.
- Victor Fomichev, September, 1996 to present. Modelling of middle and upper atmosphere IR heating for the CMAM model.
- Darryl Chartrand, January, 1995 – September, 2000. Theoretical chemistry changed to atmospheric chemistry - studying heterogeneous chemical parameterizations for global chemical models. (Working for Jacques Whitford, Toronto consulting company.)
- Erik Griffioen, PDF, June 1993 - September 1996, Non-coherent and coherent radiative transfer. (1996-98, at AES, 1998 to present, RA with York University ODIN team.)
- M. Danilin, PDF, August 1993 - August 1994, stratospheric chemistry. (Presently AZR, Boston.)
- Jacek Kaminski, December, 1996 to present, Odin and MOPITT data assimilation.
- S. Beagley, Project Scientist, October 1990 - present, General Circulation Modelling. Model Manager for the MAM general circulation model.
- A. Holubec, 1987-1989.
- G.S. Henderson, postdoctoral fellow, 1985-1987, AES-supported at York, 1987-1989. (Professor at UT.)
- Randy Gladstone, postdoctoral fellow, 1983-1985. (Presently at SWRI, Texas.)

- Richard Link, postdoctoral fellow, 1982-84. (Presently at SWRI, Texas.)

Summer Students:

- Thomas Bulteau, Ecole Polytechnique, summer, 2008.
- Meriem Labbas, Ecole Normal de Cachan, 2008
- Simon Hirst, university of Victoria, 2006.
- Stephane Bousquet, from Ecole Polytechnique, Paris, 1998.
- Stephane Delay, University of Lyon, 1997.
- Others!

Visitors

- Marion Marchand, from CNRS, Paris, Sept 2003-May 2004
- Lech Łobock, Technical university of Warsaw, Summer, 2005, 2006.
- Joanna Strużewska, Technical university of Warsaw, Summer, 2004.