

ANNE MEE THOMPSON

Professor, Department of Meteorology

Associate, Earth and Environmental Systems Institute (EESI)

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RESEARCH EXPERTISE:

Atmospheric Chemistry & Climate Change: Modeling and measurements of trace gases, air-sea gas exchange, ozone and convective systems, lightning, biomass burning. Global Change & Pollution Studies: Pollution-climate links. Simulation of future and pre-industrial troposphere. Remote Sensing. Validation of algorithms, applications of satellite data to earth systems studies.

EDUCATION:

1970 - B.A., Chemistry (Honors), Swarthmore College

1972 - M.A., Chemistry, Princeton University

1978 - Ph.D., Physical Chemistry, Bryn Mawr College

POSITIONS:

1978 - 1979 Woods Hole Oceanographic Institution, Woods Hole, MA, Postdoctoral Scholar

1979 - 1981 Univ. California-San Diego - Scripps Institution of Oceanography, LaJolla, CA,
Postgraduate Marine Chemist

1981 - 1984 National Center for Atmospheric Research (NCAR), Boulder, CO, Visiting Scientist;
ASP Postdoctoral Fellow

1984 - 1986 Applied Research Corporation, Landover, MD, Contract Scientist at NASA/GSFC

1986 - 2004 Physical Scientist, Atmospheric Chemistry and Dynamics Branch, Lab. for
Atmospheres, NASA/Goddard Space Flight Center, Greenbelt, MD

1995 - Adjunct Professor, University of Maryland-College Park, Atmospheric & Oceanic
Sciences Dept.

2000- Affiliate, University of Maryland-College Park, Earth Systems Science Interdisciplinary
Center

2005 - Professor, Penn State University, Meteorology Department

2008-2011 Director, Center for Environmental Chemistry & Geochemistry, EESI, Penn State Univ.

2011- Extraordinary Professor, School of Natural Sciences, Department of Chemistry,
Northwest University-Potchefstroom Campus, South Africa

MEMBERSHIPS:

AAAS (Am. Association for Advancement of Science), Member and Fellow

AMS (Am. Meteorological Society), Member and Fellow

AGU (Am. Geophysical Union), Member and Fellow

ACS (Am. Chemical Society)

Women in Aerospace (WIA)

Association for Women in Science (AWIS)

AWARDS:

1970 BA with Honors (External Examination), Election to Phi Beta Kappa, Sigma Xi, Philadelphia
Chapter ACS Best Student Award; NSF Predoctoral Fellowship

1987, 1989, 1995, 2003 NASA/Goddard Space Flight Center, Director's Discretionary Fund

1990-1996, 1998-2002 NASA/Goddard Performance Awards

1992 NASA/Goddard Equal Opportunity Award

- 1993, 2001 NASA/Goddard Laboratory for Atmospheres Peer Award for Outstanding Leadership
- 1995 NASA Exceptional Achievement Medal
- 1995 Fellow, American Meteorological Society (AMS)
- 1998 Nordberg Medal, COSPAR (Committee for Space Research)
- 2002 Fellow, American Association for Advancement of Science (AAAS)
- 2003 Fellow, American Geophysical Union (AGU)
- 2004 Women in Aerospace, International Achievement Award
- 2004 NASA Honor Award (SHADOZ Group Achievement)
- 2004 ISI - Highly Cited Author (Geosciences)
- 2007 William T. Pecora Award for Satellite Achievement (NASA/Dept. Interior, TOMS Team)
- 2007 Wilson Award for Excellence in Research (Penn State Univ, College of Earth and Mineral Sciences)
- 2007 NOAA Office of Atmospheric Research Outstanding Paper Award
- 2007 UNEP/WMO Recognition Letter (for Nobel Peace Prize IPCC Contributions)
- 2009 Penn State Univ, College of Earth and Mineral Sciences Faculty Mentoring Award
- 2010 Fulbright Scholar Award, South Africa
- 2011 Reginald & Muriel Noble Distinguished Lecturer, Physics Dept, University of Toronto
- 2012 Verner Suomi Award, American Meteorological Society

SPECIAL EXPERIENCE:

Research & Projects

1. PI on NASA Project: “Tropospheric Photochemical Modeling” 1984-present. Also PI on EPA and NOAA Interagency Agreements, 1985-2000.
2. NASA Earth Observing System (EOS)-Interdisciplinary Science Teams: Stratospheric Chemistry and Dynamics (M. Schoeberl, PI); Biogeochemical Fluxes at Air-Sea Interface (P. Brewer, PI); Chemistry-Climate Interaction (D. Jacob, PI), 1988-1995.
3. NASA Satellite & Aircraft Science Teams: TOMS Satellite, 1994-2004; GTE/TRACE-A; PEM-Tropics-B, TRACE-P; UARP/ STRAT, POLARIS, ACCENT, SAFARI-2000; INTEX-NA (2004), INTEX-B (2006), TC4 (2007), ARCTAS (2008), DISCOVER-AQ (2010-2014), ACAST (Air Quality Appl. Sci., 2011-2015), SEAC4RS (2012-2014)
4. Oceanographic cruises, *Knorr 73/7*, 1978; Soviet-American Gases and Aerosols (SAGA 3), 1990; Aerosols99 Cruise, *R/V R H Brown*, 1-2/99; Northeast Air Quality Study (NEAQS), *R/V R H Brown*, July 2004
5. Co-Mission Scientist, SONEX (SASS Ozone and Nitrogen Experiment), 1997
6. NASA Headquarters Detail: Project Scientist, Atmospheric Effects of Aviation Project (AEAP)/Subsonic Assessment, HQ Office of Aeronautics, 1993-1994
7. SHADOZ PI (Southern Hemisphere Additional Ozonesondes, 1997-present) and Field Work - Aerosols99 Cruise, PAUR II, 1999 (Crete); SAFARI-2000, Zambia
8. IONS (INTEX Ozone Sonde Network Study) PI, 2004; 2006. Field work at INTEX-B/Milagro in Mexico City & Richland, Washington, 2006, TC4 at Panama, 2007; NWTerritories, Canada, 2008.

Service & Committees

1. AGU: Education and Human Resource Committee, 1986-1988; Editorial Advisory Board, *Earth in Space*, 1988-1990; Secretary, Atmos. Sciences Section, 1990-1992; AGU Publications Committee, 1994-1996; Associate Editor, *JGR-Atmospheres*, 1992-1996; Chair, *GRL* Editors Search Committee, 1995-1996; Member, *JGR-Atmospheres* Editors Search Committee, 1996; Chair, 1999-2000. President, Atmos. Sciences Section, 2010-2012

2. AMS: Atmos. Chemistry Committee, 1996-1998; Council and Executive Council, 2001-2004; Nomination Committee, 2004-2007; Subject Matter Editor, *Bull. Am. Meteorological Society*, 2005-2008
3. International Societies: (A) Commission on Atmospheric Chemistry and Global Pollution (CACGP), 1994-2002. President, 2002-2006. (B) Member, International Ozone Commission, 1996-2004; (C) International Global Biosphere Project (IGBP)/Intl. Global Atmospheric Chemistry (IGAC) Steering Committee (2000-2002); (D) World Climate Research Program (WCRP)/Stratospheric Processes and their Role in Climate (SPARC) Steering Committee, 2007-2010; (E) Vice-President, Intl Ass'n for Meteorology & Atmospheric Science (IAMAS), 2007-2011
4. Global Change and Assessments: Rapporteur, Workshop on UV Effects on Aquatic Systems, 1989; Working Group 1, IPCC (Intergov. Panel on Climate Change) 1989; Rapporteur, NASA/NOAA/EPA Workshop on Global Warming Potentials, 1990; Lead Author, Chapter 8, UNEP/WMO 1998 Ozone Assessment. Reviewer, IPCC Assessment Report 4, 2007
5. NSF-NAS/NRC: Chair, NSF, NCAR-Atmos. Chemistry Div. Review Panel, 1996. NAS/NRC Committee - Major Ocean Programs (1996-1998); NAS/NRC Climate Research Committee (1996-2000); NAS/NRC Earth from Space Committee (2006-2007)
6. AAAS: Member-at-Large (2002-2005); Council (Sec. W, 2005-2007); Chair-Elect (Sec. W, 2007-2008), Chair, Section W (Atmospheric and Hydrospheric Sciences), 2008-2009
7. University Corporation for Atmospheric Research (UCAR), University Relations Committee, 2005-2006; Board of Trustees, 2007-2013
8. World Meteorological Organization (WMO): Committee on Atmospheric Science, Management Advisory Council, 2006-2009

Education & Outreach

1. Adjunct Professor - University of Maryland Earth Systems Science Interdisciplinary Center (ESSIC), 2000-present; previously JCESS Fellow, 1995-2000. Course Taught: Atmospheric Chemistry & Physics, 2002.
2. Adjunct Research Professor (Thesis Comm.): U. Miami (Rosenstiel School), NC State, Florida State
3. Students Advised/Co-advised: PhD -- C. Herbster, Florida State Univ. (1998), S. A. Yvon, U. Miami (1990-95); J-H Kim, U. Maryland (1996), D. J. Allen (1998); Masters -- C. Phelps, U. Maryland (1995), R. M. Todaro, U. Maryland (1997), H. Guo, U. Maryland (1999); M. G. Seybold, NC State (1999), D. Giles (Univ. Maryland (2007). At Penn State: J B. Stone, (MS, 2006); S. M. Michaels, (MS, 2006); A. L. Loucks, (MS, 2007); J. E. Yorks, PSU (MS, 2007), K. M. Dougherty (MS, 2008), W-C Hui, (MS, 2008), A. M. Luzik (MS, 2009), D. C. Doughty (MS, 2009), A. A. Jensen (MS, 2011), C. P. Normile (MS, 2011), R. M. Stauffer (MS, 2012), A. J. Reed (MS, 2012)
4. Penn State Thesis Committees: Meteo. MS: 2005: A. Metcalf; K Bailey; 2006: C. Beatty; 2007: M. Root, A K. Huff, D. M. Shelow. PhD - J. Mao (Meteo, 2007), J.H. Park (Elec. Eng., 2008), A. Wyant (Elec. Eng., 2010), M. Cazorla (Meteo, 2010), S. Chen (Meteo, 2011), S. Sihvonen (Chemistry, expected 2015)
5. External Examiner or Student Host/Co-author: G. Bodeker (U. Natal, So. Africa, 1995), D. Jeker (ETH-Zürich, 1999), K. Longo (U. Sao Paulo, 1998), W. Peters (U. Utrecht, Netherlands, 2002)
6. GSFC Programs: Summer Institute Atmos. Sciences, Coordinator 1987-1989; Education Office, Public Affairs Speaker, 1988-Present; Summer Advisor: 1989, D. Davidoff, Yale; 1996, N. Dang, UNH; 1993-94, K. Patterson, Salisbury State & UCSB; 1996, M. Lakin, UC-Irvine; 2003, E. Deviatova, UMD
7. Courses Taught: Penn State - Meteo 565: Middle Atmosphere, Meteo 532, Chemistry of Atmospheres; Meteo 436: Atmospheric Physics I; Meteo 440W, Meteorological Measurement Principles; Meteo 597, Remote Sensing of the Earth System
8. NCAR - Advanced Study Program, Philip D. Thompson Lecturer, 2005

REFEREED PUBLICATIONS:

1. **A. M. Thompson**, The photochemical *cis-trans* isomerization of azomethane: A kinetic investigation, Ph.D. Thesis, Bryn Mawr College, 1978.
2. **A. M. Thompson**, P. C. Goswami, and G. L. Zimmerman, A kinetic analysis of the photochemistry of alkyldiazenes in hydrocarbon solution, *J. Phys. Chem.*, **83**, 314-320, 1979.
3. **A. M. Thompson**, Wet and dry removal of tropospheric formaldehyde at a coastal site, *Tellus*, **32**, 376-383, 1980.
4. **A. M. Thompson** and R. J. Cicerone, Clouds and wet removal as causes of variability in the trace gas composition of the marine troposphere, *J. Geophys. Res.*, **87**, 8811-8826, 1982.
5. **A. M. Thompson** and O. C. Zafiriou, Air-sea fluxes of transient atmospheric species, *J. Geophys. Res.*, **88**, 6696-6708, 1983.
6. B. G. Heikes and **A. M. Thompson**, Effects of heterogeneous processes on NO₃, HONO, and HNO₃ in the troposphere, *J. Geophys. Res.*, **88**, 10,883-10,895, 1983.
7. **A. M. Thompson**, The effect of clouds on photolysis rates and ozone formation in the unpolluted troposphere, *J. Geophys. Res.*, **89**, 1341-1349, 1984.
8. **A. M. Thompson** and D. H. Lenschow, Mean profiles of trace reactive species in the unpolluted marine surface layer, *J. Geophys. Res.*, **89**, 4788-4796, 1984.
9. **A. M. Thompson** and R. J. Cicerone, Possible perturbations to atmospheric CO, CH₄, and OH, *J. Geophys. Res.*, **91**, 10,853-10,864, 1986.
10. **A. M. Thompson** and R. J. Cicerone, Atmospheric CH₄, CO, and OH from 1860-1985, *Nature*, **321**, 148-150, 1986.
11. **A. M. Thompson**, R. W. Stewart, M. A. Owens, and J. A. Herwehe, Sensitivity of tropospheric oxidants to global chemical and climate change, *Atmos. Environ.*, **23**, 519-532, 1989.
12. R. W. Stewart, **A. M. Thompson**, M. A. Owens, and J. A. Herwehe, Comparison of parameterized nitric acid rainout rates using a coupled stochastic-photochemical tropospheric model, *J. Geophys. Res.*, **94**, 5219-5226, 1989.
13. **A. M. Thompson**, M. A. Owens, and R. W. Stewart, Sensitivity of atmospheric hydrogen peroxide to global chemical and climate change, *Geophys. Res. Lett.*, **16**, 53-56, 1989.
14. C. J. Nappo, J. A. Herwehe, and **A. M. Thompson**, Observations of ozone profiles in the developing convective boundary layer, *Ozone in the Atmosphere*, edited by R. D. Bojkov and P. Fabian, pp. 477-480, A. Deepak Publishing, 1989.
15. **A. M. Thompson**, Atmospheric chemical and climate change: Possible effects on tropospheric ozone, *Ozone in the Atmosphere*, edited by R. D. Bojkov and P. Fabian, pp. 580-583, A. Deepak Publishing, 1989.
16. **A. M. Thompson**, Effects of atmospheric chemical and climate change on tropospheric ozone, *Ozone Sci. and Engin.*, **7**, 177-194, 1990.
17. R. W. Stewart, **A. M. Thompson**, and M. A. Owens, Atmospheric residence times for soluble species: Differences in numerical and theoretical model results, *Atmos. Environ.*, **24A**, 519-524, 1990.
18. K. E. Pickering, **A. M. Thompson**, R. R. Dickerson, W. T. Luke, D. P. McNamara, P. R. Zimmerman, and J. P. Greenberg, Model calculations of tropospheric ozone production potential following observed convective events, *J. Geophys. Res.*, **95**, 14049-14062, 1990.
19. **A. M. Thompson**, M. A. Huntley, and R. W. Stewart, Perturbations to tropospheric oxidants, 1985-2035: 1. Model calculations of ozone and OH in chemically coherent regions, *J. Geophys. Res.*, **95**, 9829-9844, 1990.
20. J. R. Scala, M. Garstang, W-K. Tao, K. E. Pickering, **A. M. Thompson**, J. Simpson, V. W. J. H. Kirchhoff, E. V. Browell, G. W. Sachse, A. L. Torres, G. L. Gregory, R. A. Rasmussen and M. A. K. Khalil, Cloud draft structure and trace gas transport, *J. Geophys. Res.*, **95**, 17017-17030, 1990.
21. **A. M. Thompson**, W. E. Esaias, and R. L. Iverson, Two approaches to determining the sea-to-air flux of DMS: Satellite ocean color and a photochemical model with atmospheric measurements, *J. Geophys. Res.*, **95**, 20551-20558, 1990.

22. **A. M. Thompson**, M. A. Huntley, and R. W. Stewart, Perturbations to tropospheric oxidants, 1985-2035: 2. Model calculations of hydrogen peroxide in chemically coherent regions, *Atmos. Environ.* **25A**, 1837-1850, 1991.
23. **A. M. Thompson**, Interaction of atmospheric chemical and climate change: implications for tropospheric ozone, in *Atmospheric Chemistry: Models and Predictions for Climate and Air Quality*, ed. C. S. Sloane and T. W. Tesche, Lewis Pub., Boca Raton, FL, 1991, pp. 47-61.
24. **A. M. Thompson** and R. W. Stewart, How chemical kinetics uncertainties affect concentrations computed in an atmospheric photochemical model, *Chemometrics and Intelligent Laboratory Systems*, **10**, 69-79, 1991.
25. K. E. Pickering, **A. M. Thompson**, J. R. Scala, W.-K. Tao, J. Simpson, and M. Garstang, Photochemical ozone production in tropical squall line convection in ABLE 2A, *J. Geophys. Res.*, **96**, 3099-3114, 1991.
26. **A. M. Thompson** and R. W. Stewart, The effect of chemical kinetics uncertainties on calculated constituents in a tropospheric photochemical model, *J. Geophys. Res.*, **96**, 13089-13108, 1991.
27. **A. M. Thompson**, New ozone hole phenomenon, News and Views in *Nature*, **352**, 282-283, 1991.
28. Commentary by K. B. Hogan, **A. M. Thompson**, and J. S. Hoffman, Methane on the greenhouse agenda, *Nature*, **354**, 181-182, 1991.
29. K. S. Law and J. Pyle, **A. M. Thompson**, Discussion on modelling the response of tropospheric trace species to changing source gas concentrations, *Atmos. Environ.* **26A**, 195-197, 1992.
30. K. E. Pickering, **A. M. Thompson**, J. R. Scala, W.-K. Tao, and J. Simpson, Ozone production potential following convective redistribution of biomass burning emissions, *J. Atmos. Chem.*, **14**, 297-313, 1992.
31. K. E. Pickering, J. R. Scala, **A. M. Thompson**, W.-K. Tao, and J. Simpson, A regional estimate of convective transport of CO from biomass burning, *Geophys. Res. Lett.*, **19**, 289-292, 1992.
32. **A. M. Thompson**, K. B. Hogan, and J. S. Hoffman, Methane reductions: Implications for global warming and atmospheric chemical change, *Atmos. Environ.*, **26A**, 2665-2688, 1992.
33. **A. M. Thompson**, The oxidizing capacity of the Earth's atmosphere: Probable past and future changes, *Science*, **256**, 1157-1165, 1992.
34. K. E. Pickering, **A. M. Thompson**, J. R. Scala, W.-K. Tao, R. R. Dickerson, and J. Simpson, Free tropospheric ozone production following entrainment of urban plumes into deep convection, *J. Geophys. Res.*, **97**, 17985-18000, 1992.
35. A. L. Torres and **A. M. Thompson**, Nitric oxide in the equatorial Pacific boundary layer: SAGA-3 measurements, *J. Geophys. Res.*, **98**, 16949-16954, 1993.
36. J. A. Chappellaz, I. Y. Fung, and **A. M. Thompson**, Atmospheric methane increase since the last glacial maximum. 1. Source estimates, *Tellus*, **45B**, 228-241, 1993.
37. **A. M. Thompson**, J. A. Chappellaz, I. Y. Fung, and T. L. Kucsera, Atmospheric methane increase since the last glacial maximum. 2. Effect on oxidants, *Tellus*, **45B**, 242-257, 1993.
38. **A. M. Thompson**, J. E. Johnson, A. L. Torres, and 10 others, SAGA-3 ozone observations and a photochemical model analysis of the marine boundary layer during SAGA-3, *J. Geophys. Res.*, **98**, 16955-16968, 1993.
39. E. Atlas, W. Pollock, J. Greenberg, L. Heidt, and A. Thompson, Alkyl nitrates, nonmethane hydrocarbons, and halocarbon gases over the equatorial Pacific Ocean during SAGA-3, *J. Geophys. Res.*, **98**, 16933-16948, 1993.
40. K. E. Pickering, **A. M. Thompson**, W.-K. Tao, and T. L. Kucsera, Upper tropospheric production following mesoscale convection during STEP/EMEX, *J. Geophys. Res.*, **98**, 8737-8749, 1993.
41. **A. M. Thompson**, D. P. McNamara, K. E. Pickering, and R. D. McPeters, Effect of marine stratocumulus clouds on TOMS ozone, *J. Geophys. Res.*, **98**, 23051-23057, 1993.
42. J. E. Johnson, V. M. Koropalov, K. E. Pickering, **A. M. Thompson**, N. Bond, and J. W. Elkins, Third Soviet-American Gases and Aerosols (SAGA 3) Experiment: Overview and meteorological and oceanographic conditions, *J. Geophys. Res.*, **98**, 16893-16908, 1993.
43. J. P. Pinto, C. H. Brühl, and **A. M. Thompson**, The current and future environmental role of atmospheric methane: Model studies and uncertainties: Working Group Report, in *Atmospheric Methane: Sources, Sinks and Role in global Change*, ed. by M. A. K. Khalil, Springer-Verlag, 1993, Chapter 21.

44. **A. M. Thompson**, K. E. Pickering, R. R. Dickerson, W. G. Ellis, Jr., D. J. Jacob, J. R. Scala, W.-K. Tao, D. P. McNamara, and J. Simpson, Convective transport over the central United States and its role in the regional CO and ozone budgets, *J. Geophys. Res.*, **99**, 18703-18711, 1994.
45. K. E. Pickering, **A. M. Thompson**, D. P. McNamara, M. R. Schoeberl, L. R. Lait, P. A. Newman, C. O. Justice, and J. D. Kendall, A trajectory modeling investigation of the biomass burning - tropical ozone relationship, *Ozone in the Troposphere and Stratosphere*, ed. R. D. Hudson, NASA CP-3266, 101-104, 1994.
46. K. E. Pickering, **A. M. Thompson**, J. R. Scala, W.-K. Tao, and J. Simpson, Enhancement of free tropospheric ozone production by deep convection, *Ozone in the Troposphere and Stratosphere*, ed. R. D. Hudson, NASA CP-3266, 105-108, 1994.
47. **A. M. Thompson**, Aspects of modeling the tropospheric hydroxyl radical concentration, *Israel J. Chem.*, **34**, 277-288, 1994.
48. K. E. Pickering, **A. M. Thompson**, D. P. McNamara, and M. R. Schoeberl, An intercomparison of isentropic trajectories over the South Atlantic, *Mon. Wea. Rev.*, **122**, 864-879, 1994.
49. **A. M. Thompson**, Photochemical modeling of chemical cycles: Issues related to the interpretation of ice core data, in *Biogeochemical Cycles and Ice Cores*, NATO ASI Series I-30, ed. R. J. Delmas, Springer-Verlag, Vol. I30, 265-297, 1995.
50. C. W. Brown, W. E. Esaias, and **A. M. Thompson**, Using the ratio of euphotic depth to mixed-layer depth to predict phytoplankton composition: An evaluation, *Remote Sensing of Env.*, **53**, 172-176, 1995.
51. R. D. Hudson, J. Kim, and **A. M. Thompson**, On the derivation of tropospheric column ozone from radiances measured by the total ozone mapping spectrometer, *J. Geophys. Res.* **100**, 11137-11145, 1995.
52. **A. M. Thompson**, Measuring and modeling the tropospheric hydroxyl radical (OH), *J. Atmos. Sci.*, **52**, 3315-3327, 1995.
53. K. E. Pickering, **A. M. Thompson**, D. P. McNamara, W.-K. Tao, A. M. Molod, and R. B. Rood, Vertical transport by convective clouds: Comparisons between cloud-scale and global-scale models, *Geophys. Res. Lett.*, **22**, 1089-1092, 1995.
54. M. A. Carroll and **A. M. Thompson**, NO_x in the non-urban troposphere, 198-255 in *Problems and Progress in Atmospheric Chemistry*, ed. J. Barker, World Pub. Company, 1995.
55. B. Heikes, M. Lee, D. Jacob, R. Talbot, J. Bradshaw, H. Singh, D. Blake, B. Anderson, H. Fuelberg, and **A. Thompson**, Ozone, hydroperoxides, oxides of nitrogen, and hydrocarbon budgets in the marine boundary layer over the South Atlantic, *J. Geophys. Res.*, **101**, 24221-24234, 1996.
56. J.-H. Kim, R. D. Hudson, and **A. M. Thompson**, A new method of deriving time-averaged tropospheric column ozone over the tropics using TOMS radiances: Intercomparison and analysis, *J. Geophys. Res.*, **101**, 24317-24330, 1996.
57. J. R. Ziemke, S. Chandra, **A. M. Thompson**, and D. P. McNamara, Zonal asymmetries in southern hemisphere column ozone: Implications of biomass burning, *J. Geophys. Res.*, **101**, 14421-14427, 1996.
58. S. A. Yvon, E. S. Saltzman, D. J. Cooper, T. S. Bates, and **A. M. Thompson**, The flux of dimethylsulfide from the tropical South Pacific during a time-series station at 12°S, 135°W, *J. Geophys. Res.*, **101**, 6899-6909, 1996.
59. **A. M. Thompson**, R. D. Diab, G. E. Bodeker, M. Zunckel, G. Coetzee, C. B. Archer, D. P. McNamara, K. E. Pickering, J. B. Combrink, J. Fishman, and D. Nganga, Ozone over southern Africa during SAFARI-92/TRACE-A, *J. Geophys. Res.*, **101**, 23793-23807, 1996.
60. R. D. Diab, **A. M. Thompson**, M. Zunckel, G. J. R. Coetzee, J. B. Combrink, G. E. Bodeker, J. Fishman, F. Sokolic, D. P. McNamara, C. B. Archer, and D. Nganga, Vertical ozone distribution over southern Africa and adjacent oceans during SAFARI-92, *J. Geophys. Res.*, **101**, 23,809-23,821, 1996.
61. K. E. Pickering, **A. M. Thompson**, D. P. McNamara, M. R. Schoeberl, H. E. Fuelberg, R. O. Loring, Jr., M. V. Watson, K. Fakhruzzaman, and A. S. Bachmeier, TRACE-A trajectory intercomparison: 1. Effects of different input analyses, *J. Geophys. Res.*, **101**, 23,909-23,925, 1996.
62. H. E. Fuelberg, R. O. Loring, Jr., M. V. Watson, M. C. Sinha, K. E. Pickering, **A. M. Thompson**, D. R. Blake, G. W. Sachse, and M. R. Schoeberl, TRACE-A trajectory model intercomparison: 2. Isentropic and kinematic methods, *J. Geophys. Res.*, **101**, 23,927-23,939, 1996.

63. W. G. Ellis, Jr., **A. M. Thompson**, S. Kondragunta, K. E. Pickering, G. Stenchikov, R. R. Dickerson, and W.-K. Tao, Potential ozone production following convective transport based on future emission scenarios, *Atmos. Environ.*, **30**, 667-672, 1996.
64. K. E. Pickering, **A. M. Thompson**, Y. Wang, W.-K. Tao, D. P. McNamara, V. W. J. H. Kirchhoff, B. G. Heikes, G. W. Sachse, J. D. Bradshaw, G. L. Gregory, and D. R. Blake, Convective transport of biomass burning emissions over Brazil during TRACE-A, *J. Geophys. Res.*, **101**, 23,993-24,012, 1996.
65. Y. Wang, W.-K. Tao, K. E. Pickering, **A. M. Thompson**, R. Adler, J. Simpson, P. Keehn, and J. Lai, Mesoscale (MM5) simulations of TRACE-A and PRE-STORM convective events, *J. Geophys. Res.*, **101**, 24,013-24,027, 1996.
66. N. C. Hsu, J. R. Herman, P. K. Bhartia, C. J. Seftor, **A. M. Thompson**, J. Gleason, T. Eck, and B. N. Holben, Detection of biomass burning smoke from TOMS measurements, *Geophys. Res. Lett.*, **23**, 745-748, 1996.
67. R. W. Stewart and **A. M. Thompson**, Kinetic data imprecisions in photochemical rate calculations: Means, medians and temperature dependence, *J. Geophys. Res.*, **101**, 20,953-20,964, 1996.
68. T. Zenker, **A. M. Thompson**, D. P. McNamara, T. L. Kucsera, G. W. Harris, F. G. Wienhold, P. Le Canut, M. O. Andreae and R. Koppman, Regional trace gas distribution and air mass characteristics in the haze layer over southern Africa during the biomass burning season (Sep./Oct. 92): Observations and modeling from the STARE/SAFARI '92/DC-3, *Biomass Burning and Global Change*, ed. J. S. Levine, MIT Press, 296-308, 1996.
69. P. D. Tyson, M. Garstang, R. J. Swap, E. V. Browell, R. D. Diab and **A. M. Thompson**, Transport and vertical structure of ozone and aerosol distributions over southern Africa, *Biomass Burning and Global Change*, ed. J. S. Levine, MIT Press, 403-421 1996.
70. D. J. Allen, R. B. Rood, **A. M. Thompson**, and R. D. Hudson, Three-dimensional Rn-222 calculations using assimilated meteorological data and a convective mixing algorithm, *J. Geophys. Res.*, **101**, 6,871-6,881, 1996.
71. **A. M. Thompson**, Modeling framework for atmospheric trace gas measurements at the air-snow interface, in *Processes of Chemical Exchange Between the Atmosphere and Polar Snow*, ed. by E. W. Wolff and R. C. Bales, NATO ASI Springer-Verlag, **143**, 225-248, 1996.
72. **A. M. Thompson**, Evaluation of biomass burning effects on ozone during SAFARI/TRACE-A: Examples from process models, in *Biomass Burning and Global Change*, ed. J. S. Levine, MIT Press, Chapter 32, 1996.
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