CURRICULUM VITAE

January 2013

I. PERSONAL

Paul Ginoux

Current Appointment: Physical Scientist Level 4
National Oceanic and Atmospheric Administration
Geophysical Fluid Dynamics Laboratory
Forrestal Campus – Route 1
201 Forrestal Road
Princeton, NJ-08542-0308

Visiting Research Collaborator
Atmopsheric&Ocean Sciences (AOS), and
Civil Environmental Engineering (CEE)
Princeton University
Princeton, NJ-08544

II. HIGHER EDUCATION

Free University of Brussels, Belgium, Ph.D. Applied Sciences, 1997.
Free University of Brussels, Belgium, M.S., Civil Engineering, 1988.
Free University of Brussels, Belgium, B.S., Civil Engineering, 1986.

III. EXPERIENCE

Academic

2004-present, Research Physical Scientist, NOAA GFDL, Princeton, NJ
2003-2004, Project Scientist I, UCAR/NOAA GFDL, Princeton, NJ
2001-2003, Assistant Research Scientist, GEST/NASA GSFC, MD
1998-2001, Post doctoral Fellow at NASA GSFC, MD
1992-1997, Scientist visitor, National Center for Atmospheric Research, CO
1991-1992, Civil Engineer, Belgium Institute for Space Aeronomy, Belgium

Military

1989-1990, Royal Military Academy, Department of electromechanical engineering, Belgium

IV PUBLICATIONS

Journal Articles (peer reviewed): ISI Web of Science (01/2013): h-index=34, citations=5025

1. Kim, D., M. Chin, H. Bian, Q. Tan, M. E. Brown, T. Zheng, R. You, T. Diehl, P. A. Ginoux, and T. Kucsera (2013), The effect of the dynamic surface bareness on dust source function, emission, and distribution, *J. Geophys. Res.*, *118*, doi:10.1029/2012JD017907.
2. Fan, S.-M., J. P. Schwarz, J. Liu, D. W. Fahey, P. Ginoux, L. W. Horowitz, H. Levy II, Y. Ming, and J. R. Spackman (2012), Inferring ice formation processes from global-scale black carbon profiles observed in the remote atmosphere and model simulations, *J. Geophys. Res., 117*, D23205, doi: 10.1029/2012JD018126.
3. Fiore, et al., Global air quality and climate, *Chem. Soc. Rev., 41*, 6663-6683, doi: 10.1039/C2CS35095E.
4. Ginoux, P., J. M. Prospero, T. E. Gill, N. C. Hsu, and M. Zhao, 2012, Global scale attribution of anthropogenic and natural dust sources and their emission rates based on MODIS Deep Blue aerosol products, *Rev. Geophys., 50*, RG3005, doi:10.1029/2012RG000388.
5. Ginoux, P., L. Clarisse, C. Clerbaux, P.-F. Coheur, O. Dubovik, N. C. Hsu, and M. Van Damme 2012, Mixing of dust and NH3 observed globally over anthropogenic dust sources, *Atm. Chem. Phys., 12,* 7351-7363, doi:10.5194/acp-12-7351-2012.
6. Koffi, B., P. Ginoux, et al., 2012, Application of the CALIOP Layer Product to evaluate the vertical distribution of aerosols estimated by global models: Part 1. AeroCom phase I results, J. *Geophys. Res., 117*, D10201, doi:10.1029/2011JD016858.
7. Ocko, I., V. Ramaswamy, P. Ginoux, Y. Ming, and L. Horowitz (2012), Sensitivity of the aerosol direct radiative forcing balance to physical climate factors, *J. Geophys. Res.,* doi:10.1029/2012JD018019, in press.
8. Donner, L., P. Ginoux, et al., 2011, The Dynamical Core, Physical Parameterizations, and Basic Simulation Characteristics of the Atmospheric Component AM3 of the GFDL Global Coupled Model CM3, *J. Climate*, 24(13), doi: 10.1175/2011JCLI3955.1.
9. Huneeus, N., P. Ginoux, et al., 2011, Global dust model intercomparison in AeroCom phase I, *Atmos. Chem. Phys. Discuss., 10,* 23781-23864, doi:10.5194/acpd-10-23781-2010
10. Miller, D J., K Sun, M A Zondlo, D Kanter, O Dubovik, E J Welton, D M Winkler, and P. Ginoux (2011), Assessing boreal forest fire smoke aerosol impacts on U.S. air quality: A case study using multiple data sets, *J. Geophys. Res., 116*, D22209, doi:10.1029/2011JD016170.
11. Draxler, D., P. Ginoux, and A. F. Stein, 2010, An empirically derived emission algorithm for wind blown dust, *J. Geophys. Res.*, 105, D16212, doi:10.1029/2009JD013167.
12. Ginoux, P., D Garbuzov, and N C Hsu, 2010, Identification of anthropogenic and natural dust sources using Moderate Resolution Imaging Spectroradiometer (MODIS) Deep Blue level 2 data, *J. Geophys. Res., 115*, D05204, doi:10.1029/2009JD012398.
13. Li, F, P. Ginoux, V. Ramaswamy, 2010, Transport of Patagonian dust to Antarctica, *J. Geophys. Res*., D18217, doi:10.1029/2009JD012356.
14. Li, F., V. Ramaswamy, P. Ginoux, A. Broccoli, T. Delworth, and F. Zeng, 2010, Toward understanding the dust deposition in Antarctica during the Last Glacial Maximum: Sensitivity studies on plausible causes, *J. Geophys. Res*., 115, D24120, doi:10.1029/2010JD014791.
15. Salzmann, M., Y. Ming, J-C Golaz, P. Ginoux, H. Morrison, M. Kramer, and L. Donner, 2010, Two-moment bulk stratiform cloud microphysics in the GFDL AM3 GCM: Description, evaluation, and sensitivity tests, *Atmos. Chem. Phys., 10(12), 5361-5370.*
16. Ganguly D, P. Ginoux, V. Ramaswamy, D. M. Winker, B. N. Holben, and S. N. Tripathi, 2009, Retrieving the composition and concentration of aerosols over the Indo-Gangetic basin using CALIOP and AERONET data. *Geophys. Res. Letters*, **36**, L13806, doi:10.1029/2009GL038315.
17. Ganguly, D., P. Ginoux, V. Ramaswamy, O. Dubovik, J. Welton, E. A. Reid, and B. N. Holben, 2009, Inferring the composition and concentration of aerosols by combining AERONET and

MPLNET data: comparison with other measurements and utilization to evaluate GCM output, *J. Geophys. Res.*, doi:10.1029/2009JD011895.

18. Koch, D., and P. Ginoux et al., 2009, Evaluation of black carbon estimations in global aerosol models, *Atmos. Chem and Phys., 9(22),* 9001-9026.
19. Liu, Junfeng, D. L. Mauzerall, L. W. Horowitz, P. Ginoux, and A. M. Fiore, 2009, Evaluating inter-continental transport of fine aerosols: (1) Methodology, global aerosol distribution and optical depth, *Atmos. Environm., 43,* 4327-4338.
20. Magi, B. I., P. Ginoux, Y. Ming, and V. Ramaswamy, 2009, Evaluation of tropical and extratropical Southern Hemisphere African aerosol properties simulated by a climate model, *J. Geophys. Res.*, doi:10.1029/2008JD011128.
21. Monks, P. S., and P. Ginoux, et al., 2009, Atmospheric composition change-global and regional air quality, *Atmos. Environm., 43(33)*, doi:10.1016/j.atmosenv.2009.08.21.
22. Quaas, J., and P. Ginoux et al., 2009, Aerosol indirect effects – general circulation model intercomparison and evaluation with satellite data, *Atm. Chem. Phys., 9(22)*, 8697-8717.
23. Dubovik O., T. Lapyonok, Y. J. Kaufman, M. Chin, P. Ginoux, and A. Sinyuk, 2008, Retrieving global aerosol sources from satellite using inverse modeling, *Atmos. Chem. Phys., 8,* 209-250.
24. Li F., P. Ginoux, and V. Ramaswamy, 2008: Distribution, transport, and deposition of mineral dust in the Southern Ocean and Antarctica: Contribution of major sources, *J. Geophys. Res.,* 113, D10207, doi:10.1029/2007JD009190.
25. Chin M., T. Diehl, P. Ginoux, and W. Malm, 2007, Intercontinental transport of pollution and dust aerosols: implications for regional air quality, *Atmos. Chem. Phys., 7(21),* 5501-5517.
26. Ming Y., V. Ramaswamy, L. J. Donner, V. T. J. Phillips, S. A. Klein, P. A. Ginoux, and L. W. Horowitz, 2007, Modeling the interactions between aerosols and liquid water clouds with a slef-consistent scheme in a general circulation model, *J. Atmos. Sci., 64(4),* 1189-1209.
27. Rotstayn L., W. Cai, M. R. Dix, G. D. Farquhar, Y. Feng, P. Ginoux, M. Herzog, A. Ito, J. Penner, M. L. Roderick, and M. Wang, 2007, Have Australian rainfall and cloudiness increased due to the remote effects of Asian anthropogenic aerosols?, *J. Geophys. Res., 112,* D09202, doi:10.1029/2006JD007712.
28. Textor C., M. Schulz, s. Guibert, S. Kinne, V. Balkanski, S. Bauer, T. Berntsen, T. Berglen, O. Boucher, and P. Ginoux, et al., 2007, The effect of harmonized emissions on aerosol properties in global models - an AeroCom experiment, *Atmos. Chemistry and Physics,* 7, 4489-4501.
29. Weaver C., M. Chin, P. Ginoux, O. Dubovik, D. Flintner, A. Zia, L. Remer, B. Holben, and W. Gregg, 2007, Assimilation of MODIS radiances in a global aerosol transport model, *J. Atm. Sci*., *64(3),* 808-827..
30. Cakmur R. V. , R. L. Miller, J. Perlwitz, I. V. Geogdzhayev , P. Ginoux, D. Koch, K. E. Kohfeld, I. Tegen, and C. S. Zender, 2006, Constraining the magnitude of the global dust cycle by minimizing the difference between a model and observations. *J. Geophys. Res., 111,* D06207, doi:10.1029/2005JD005791.
31. Delworth T. L., A. Rosati, R. J. Stouffer, K. W. Dixon, J. Dunne, K. Findell, P. Ginoux, A. Gnanadesikan, C. T. Gordon, S. M. Griffies, R. Gudgel, M. J. Harrison, I. M. Held, R. S. Hemler, L. W. Horowitz, S. A. Klein, T. R. Knutson, S-J. Lin, P. C. D. Milly, V. Ramaswamy, M. D. Schwarzkopf, J. J. Sirutis, W. F. Stern, M. J. Spelman, M. Winton, A. T. Wittenberg, B. Wyman, et al., 2006: GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and simulation characteristics. Journal *of Climate, 19(5)*, 643-674.
32. Dentener F., S. Kinne, T. Bond, O. Boucher, J. Cofala, S. Generoso, P. Ginoux, S. Gong, J. J. Hoelzemann, A. Ito, L. Marelli, J. E. Penner, J.-P. Putaud, C. Textor, M. Schulz, G. R. van der Werf, J. Wilson , 2006, Emissions of primary aerosol and precursor gases in the years 2000 and 1750, prescribed data-sets for AeroCom. *Atmos. Chemistry and Physics, 6*, 2703-2763.
33. Ginoux P., L. W. Horowitz, V. Ramaswamy, I. V. Geogdzhayev, B. N. Holben, G. Stenchikov, and X. Tie, 2006, Evaluation of Aerosol Distribution and Optical Depth in the GFDL Coupled Model CM2.1 for Present Climate, *J. Geophys. Res*., *111,* D22210, doi:10.1029/2005JD006707.

34. Kinne S., M. Schulz, C. Textor, S. Guibert, Y. Balkanski, S. E. Bauer, P. Ginoux, M. Herzog, and L. Horowitz, et al., 2006, An AeroCom initial assessment - optical properties in aerosol component modules of global models. *Atmos. Chemistry and Physics, 6,* 1815-1834.
35. Miller R. L., R. V. Cakmur, J. Perlwitz, I. V. Geogdzhayev, P. Ginoux, D. Koch, K. E. Kohfeld, C. Prigent, R. Ruedy, G. A. Schmidt, and I. Tegen, 2006, Mineral dust aerosols in the NASA Goddard Institute for Space Sciences ModelE atmospheric general circulation model, *J. Geophys. Res., 111*, D06208, 10.1029/2005JD005796.
36. Textor C., M. Schulz, S. Guibert, S. Kinne, Y. Balkanski, S. Bauer, T. Berglen, P. Ginoux, and L. Horowitz, et al., 2006, Analysis and quantification of the diversities of aerosol life cycles within AeroCom. *Atmos. Chemistry and Physics, 6*, 1777-1813.
37. Washington R., M. C. Todd, G. Lizcano, I. Tegen, C. Flamant, I. Koren, P. Ginoux, s. Engelstaedter, C. S. Bristow, C. S. Zender, A. S. Goudie, A. Warren, and J. M. Prospero, 2006, Links between topography, wind, deflation, lakes and dust: The case of the Bodélé Depression, Chad. *Geophysical Research Letters, 33*, L09401, doi:10.1029/2006GL025827.
38. Kaufman Y. J., I. Koren, L. A. Remer, D. Tanré, P. Ginoux, and S. Fan, 2005, Dust transport and deposition observed from the Terra-Moderate Resolution Imaging Spectroradiometer (MODIS) spacecraft over the Atlantic Ocean, *J. Geophys. Res., 110,* D10S12, doi:10.1029/2003JD004436.
39. Kinne S., M. Schulz, C. Textor, S. Guibert, Y. Balkanski, S. E. Bauer, T. Berntsen, T. F. Berglen, O. Boucher, M. Chin, W. Collins, F. Dentener, T. Diehl, R. Easter, J. Feichter, D. Fillmore, S. Ghan, P. Ginoux, S. Gong, A. Grini, J. Hendricks, M. Herzog, L. Horowitz, I. Isaksen, T. Iversen, A. Kirkevåg, S. Kloster, D. Koch, J. E. Kristjansson, M. Krol, A. Lauer, J. F. Lamarque, G. Lesins, X. Liu, U. Lohmann, V. Montanaro, G. Myhre, J. Penner, G. Pitari, S. Reddy, Ø. Seland, P. Stier, T. Takemura, X. Tie, 2005, An AeroCom initial assessment - optical properties in aerosol component modules of global models, *Atmos. Chemistry and Physics, 5*, 8285-8330.
40. Lamarque J.-F., J. T. Kiehl, P. G. Hess, W. D. Collins, L. K. Emmons, P. Ginoux, C. Luo, and X. X. Tie, 2005, Response of a coupled chemistry-climate model to changes in aerosol emissions: Global impact on the hydrological cycle and the tropospheric burdens of OH, ozone, and NOx . *Geophys. Res. Letters, 32*, L16809, doi: 10.1029/2005GL023419.
41. Ming Y., V. Ramaswamy, P. A. Ginoux, and L. H. Horowitz, 2005, Direct radiative forcing of anthropogenic organic aerosol, *J. Geophys. Res., 110,* D20208, doi:10.1029/2004JD005573.
42. Ming Y., V. Ramaswamy, P. A. Ginoux, L. W. Horowitz, and L. M. Russell, 2005, Geophysical Fluid Dynamics Laboratory general circulation model investigation of the indirect radiative effects of anthropogenic sulfate aerosol, *J. Geophys. Res., 110,* D22206, doi:10.1029/2005JD006161.
43. Textor C., M. Schulz, S. Guibert, S. Kinne, Y. Balkanski, S. Bauer, T. Berntsen, T. Berglen, O. Boucher, M. Chin, F. Dentener, T. Diehl, R. Easter, H. Feichter, D. Fillmore, S. Ghan, P. Ginoux, S. Gong, A. Grini, J. Hendricks, L. Horowitz, P. Huang, I. Isaksen, T. Iversen, S. Kloster, D. Koch, A. Kirkevåg, J. E. Kristjansson, M. Krol, A. Lauer, J. F. Lemarque, X. Liu, V. Montanaro, G. Myhre, J. Penner, G. Pitari, S. Reddy, Ø. Seland, P. Stier, T. Takemura, and X. Tie, 2005, Analysis and quantification of the diversities of aerosol life cycles within AeroCom. *Atmos. Chemistry and Physics, 5,* 8331-8420.
44. Tie X., S. Madronich, S. Walters, D. P. Edwards, P. Ginoux, N. Mahowald, R-Y. Zhang, C. Lou, and G. Brasseur, 2005, Assessment of the global impact of aerosols on tropospheric oxidants. *J. Geophys. Res., 110*, D03204, doi:10.1029/2004JD005359.
45. Barnum B. H., N. S. Winstead, J. Wesely, A. Hakola, P. R. Colarco, O. B. Toon, P. Ginoux, G. Brooks, L. Hasselbarth, and B. Toth, 2004, Forecasting dust storms using the CARMA-dust model and MM5 weather data, *Environmental Modelling and Software, 19(2),* 129-140.
46. Chin M., A. Chu, R. Levy, L. Remer, Y. Kaufman, B. Holben, T. Eck, P. Ginoux, and Q. Gao, 2004, Aerosol distribution in the Northern Hemisphere during ACE-Asia: Results from global model, satellite observations, and Sun photometer measurements, *J. Geophys. Res., 109*, D23S90, doi:10.1029/2004JD004829.
47. Ginoux P., J. M. Prospero, O. Torres, and M. Chin, 2004, Long-term simulation of global dust distribution with the GOCART model: Correlation with North Atlantic Oscillation, *Environmental Modelling and Software, 19(2),* 113-128.

48. Ansmann A., J. Bösenberg, and P. Ginoux, et al., 2003, Long-range transport of Saharan dust to northern Europe: The 11-16 October 2001 outbreak observed with EARLINET, *J. Geophys. Res., 108(D24)*, 4783, doi: 10.1029/2003/JD003757.
49. Chin M., P. Ginoux, R. Lucchesi, B. Huebert, R. Weber, T. Anderson, S. Masonis, B. Blomquist, A. Bandy, D. Thornton, 2003: A global aerosol model forecast for the ACE-Asia field experiment. *Journal of Geophysical Research, 108(D23),* 8654, doi:10.1029/2003JD003642.
50. Erickson D. J., J. L. Hernandez, P. Ginoux, W. W. Gregg, C. McClain, J. Christian, 2003, Atmospheric iron delivery and surface ocean biological activity in the Southern Ocean and Patagonian region. Geophysical *Research Letters, 30(12),* 1609, doi:10.1029/2003GL017241.
51. Ginoux P., 2003, Effects of nonsphericity on mineral dust modeling, *J. Geophys. Res., 108(D2),* 4052, doi:10.1029/2002JD002516.
52. Ginoux P., and O. Torres, 2003, Empirical TOMS index for dust aerosol: Applications to model validation and source characterization, *J. Geophys. Res., 108(D17)*, 4534, doi:10.1029/2003JD003470.
53. Gregg W. W., M. E. Conkright, P. Ginoux, J. E. O'Reilly, N. W. Casey, 2003, Ocean primary production and climate: Global decadal changes, *Geophys. Res. Letters, 30(15*), 1809, doi:10.1029/2003GL016889.
54. Gregg W. W., P. Ginoux, P. S. Schopf, and N. W. Casey, 2003, Phytoplankton and iron: validation of a global three-dimensional ocean biogeochemical model. *Deep-Sea Research II, 50,* 3143-3169.
55. Grousset F. E., P. Ginoux, A. Bory, and P. E. Biscaye, 2003, Case study of a Chinese dust plume reaching the French Alps, *Geophys. Res. Letters, 30(6),* 1277, doi:10.1029/2002GL016833.
56. Kinne S., U. Lohmann, and P. Ginoux, et al., 2003, Monthly averages of aerosol properties: a global comparison among models, satellite data, and AERONET ground data, *J. Geophys. Res., 108(D20),* 4634, doi:10.1029/2001JD001253.
57. Martin R. V. , D. J. Jacob, R. M. Yantosca, M. Chin, and P. Ginoux, 2003, Global and regional decreases in tropospheric oxidants from photochemical effects of aerosols, *J. Geophys. Res., 108(D3)*, 4097, doi: 10.1029/2002JD002622.
58. Weaver C. J., J. Joiner, and P. Ginoux, 2003, Mineral aerosol contamination of TIROS Operational Vertical Sounder (TOVS) temperature and moisture retrievals, *J. Geophys. Res., 108(D8),* 4246, doi:10.1029/2002JD002571.
59. Chin M., P. Ginoux, S. Kinne, O. Torres, B. N. Holben, B. N. Duncan, R. V. Martin, J. A. Logan, A. Higurashi, and T. Nakajima, 2002, Tropospheric aerosol optical thickness from the GOCART model and comparisons with satellite and Sun photometer measurements, *J. Atmos. Sciences, 59(3),* 461-483.
60. Martin, R V., A. M Fiore, and P. Ginoux, et al., 2002, Interpretation of TOMS observations of tropical tropospheric ozone with a global model and in situ observations, *J. Geophys. Res.*, 107(D18), 4351, doi:10.1029/2001JD001480.
61. Penner J. E., S. Y. Zhang, M. Chin, C. C. Chuang, J. Feichter, Y. Feng, I. V. Geogdzhayev, P. Ginoux, M. Herzog, A. Higurashi, D. Koch, C. Land, U. Lohmann, M. Mishchenko, T. Nakajima, G. Pitari, B. Soden, I. Tegen, and L. Stowe, 2002, A comparison of model- and satellite-derived aerosol optical depth and reflectivity, *J. Atmos. Sciences, 59(3),* 441-460.
62. Prospero J. M., P. Ginoux, O. Torres, S. E. Nicholson, and T. E. Gill, 2002, Environmental characterization of global sources of atmospheric soil dust identified with the NIMBUS 7 Total Ozone Mapping Spectrometer (TOMS) absorbing aerosol product, *Rev. Geophys., 40(1)*, 1002, doi:10.1029/2000RG000095.
63. Torres O., P. K. Bhartia, J. R. Herman, A. Sinyuk, P. Ginoux, and B. Holben, 2002, A long-term record of aerosol optical depth from TOMS observations and comparison to AERONET measurements. *Journal of the Atmospheric Sciences, 59(3),* 398-413.
64. Weaver C. J., P. Ginoux, N. C. Hsu, M-D Chou, and J. Joiner, 2002, Radiative forcing of Saharan dust: GOCART model simulations compared with ERBE data, *J. Atmos. Sciences, 59(3),* 736-747.

65. Ginoux P., M. Chin, I. Tegen, J. M. Prospero, B. Holben, O. Dubovik, and S-J. Lin, 2001, Sources and distributions of dust aerosols simulated with the GOCART model, *J. Geophys. Res., 106 (D17),* 20,255-20,273.
66. Greenberg J. P., A. Guenther, S. Madronich, W. Baugh, P. Ginoux, A. Druilhet, R. Delmas, and C. Delon, Biogenic VOC emissions in Central Africa during EXPRESSO biomass burning season, *J. Geophys. Res., 104*, 30,365-30671, 1999.
67. Delmas et al., Experiment for Regional Sources and Sinks of Oxidants (EXPRESSO): An overview, *J. Geophys. Res., 104*, 30,609-30,624, 1999.
68. Hauglustaine D., A. S. Madronich, B. A. Ridley, S. J. Flocke, C. A. Cantrell, F. L. Eisele, R. E. Shetter, D. J. Tanner, P. Ginoux, and E. L. Atlas, 1999, Photochemistry and budget of ozone during the Mauna Loa Observatory Photochemistry Experiment (MLOPEX 2), *J. Geophys. Res., 104*, 20,275-30,307.

Book Chapters

1. *Atmospheric Chemistry and Global Change*, Edited by G. P. Brasseur, J. J. Orlando and G. S. Tyndall, Oxford University Press, New York, 1999.
2. *Remote Sensing and Climate Modeling: Synergies and Limitations,* Edited by M. Beniston and M. M. Verstraete, Kluwer Academic Publishers, Netherlands, 2001.
3. *Emissions of Chemical Species and Aerosol into the Atmosphere,* Edited by C. Granier, P. Artaxo, and C. Reeves, Kluwer Academic Publishers, Netherlands, 2004.

Assessment Reports

1. Report of the Intergovernmental Panel on Climate Change (IPCC), Chapter 5. Aerosols, their direct and indirect effects, Cambridge University Press, 2001.
2. A report of findings and recommendations on the impacts of aviation on climate change, FAA, 2006.

Other publications

Ginoux, P., Development of a telescopic atmospheric chemistry transport model, and interpretation of the results of the MLOPEX field campaign, Free University of Brussels, 303 pp., 1997. (Ph. D. Thesis in French).

Baudouin, Y., and P. Ginoux, Techniques CAD/CAM, *Report MA513-22*, Royal Military School, Belgium, 1990.

Ginoux, P., Y. Baudoin, and E. Ponselet, Criteres de qualifications en vibrations de materiels electro-acoustiques, *Revue de l'Ecole Polytechnique* (Journal of the Royal Military School of Belgium, in French), *3*, 4-14, 1989.

V. PROFESSIONAL

Funded proposals

2012: NASA GSFC, improve dust sources in GEOS-5
2007-2008: NASA GLORY Science team: P Ginoux, $35k/yr
2005-2007: NASA NRA NN-H-04-Z-YS-003-N: Understanding the Mechanisms and Effects of Ice Nucleation in Tropical Cyclone, PI: P. Ginoux, $35k/yr
2001-2003: NASA NRA 00-OES-09: Variability of Aerosols Distribution and optical properties simulated by GOCAT model using TOMS aerosol data and AERONET measurements, PI: P. Ginoux, $80k /year
2000-2001: NASA NRA 99-OES-04: A 3-D model analysis of satellite and ACE-Asia data, NASA, PI: M. Chin, $100k/year ($8k/yr for Co-I P. Ginoux)
2000-2001: NASA NRA 99-OES-04: The interactions between the troposphere and the stratosphere: The impact of climate change, PI: M. Schoeberl, 700K/year ($8k/yr for Co-I P. Ginoux)

Professional and Honorary Organizations

American Geophysical Union: 1997 to present
TOMS satellite Science Team: 2001-2005
GLORY Advisory Science Team: 2006-2007

Awards

2012 US Department of Commerce Gold medal for Meritorious Federal Service
2007 DOI and NASA William T. Pecora award: shared as a member of TOMS Science team.
2005 US Department of Commerce Silver medal for Meritorious Federal Service
2005 NASA GSFC Journal citation award for Ginoux et al., *J. Geophys. Res*. 2001
2004 ESI Thompson citation for Fast Moving Front in Geosciences

Reviews

Journals: Geophysical Research Letters, Nature, Journal of Climate, Journal of Applied Meteorology, Journal of Atmospheric and Oceanic Technology, Journal of Climate Dynamics, Journal of Environmental Engineering and Science, Journal of Geophysical Research, Monthly Weather Review, Nature, Proceedings of the National Academy of Sciences, Quarterly Journal, Tellus, Weather Forecasting

Research proposals: USA: DOE, NASA, NOAA, NSF
Canada: National Research Council
France: French National Research Agency
Hong Kong: Research Grants Council
Israel: National Science Foundation

Panel review: APS-2 satellite: 2011
DOE Research proposal: 2011
Laboratoire d'Optique Atmospherique (Lille, France), review of laboratory for the French government: 2008
NOAA NWS dust forecasting: 2008
IPCC WG1 4AR (US Government review): 2006
NASA research proposals: 2005, 2006, 2010
ESSP3 (renamed later CALIPSO) Lidar Algorithms: 2001

Service to profession:

Organizing committee member, 8th International AeroCom workshop, Princeton, NJ, 2009
Convener of a session at AGU Fall meeting, San Francisco, CA, 2003

Invited Talks

Workshop on Dust, Climate and Health in Sub-Saharan Africa (Columbia University, NY, 2012), Fall AGU (2011), Workshop on Observations and modeling of aerosol and clouds properties for climate studies (Paris, France, 2011), Belgian Institute for Space Aeronomy (Brussels, Belgium, 2011), AeroCenter (NASA GSFC, MD, 2011), Lamont-Doherty Dust Records meeting (Palisades, NY, 2010), DOE Atmospheric Science Research (Bethesda, MD, 2010), US emission initiative (Boulder, CO, 2010), Third International dust workshop (Leipzig, Germany, 2008), IPSL/CEA (Paris, France, 2008), Yoram Kaufman symposium (MD, 2007), NASA GSFC (MD, 2007), Laboratoire d'Optique Atmospherique (Lille, France, 2006), GEIA-ACCENT workshop (Paris, France, 2006), AEROCOM-V workshop (VA, 2006), Rutgers University (NJ, 2006), DOE Atmospheric Sciences Program (Washington DC, 2006), Yale University (CT, 2005), NASA GISS (NY, 2005), GEIA Workshop on emission of atmospheric tracers (Paris, France, 2005), Columbia University (NY, 2004), US-India State departments initiative on climate research (New Delhi, 2004), AGU fall meeting (San Francisco, CA, 2004), Second International Workshop on Mineral dust (Paris, France, 2003), ICAR-5 (Lubbock, TX, 2002), IAMAS (Innsbruck, Austria, 2001), AMS annual meeting (Albuquerque, NM, 2001), Miami University (Miami, FL, 2001), First International Workshop on mineral dust (Boulder, CO, 1999), Second Gentner Symposium on Geosciences (Nazareth, Israel, 1999).

Contributed Talks

Fall AGU 2012 (2), Fall AGU 2009 (1), Fall AGU 2008 (2), IGAC 2008 (2), Aerocom workshops (2010, 2009, 2007, 2006, 2004), Fall AGU 2007 (2), Fall AGU 2003 (6), Fall AGU 2003 (session convener), Fall AGU 2002 (2), IAMAS 2001 (3), Spring AGU 2000 (3), Fall AGU 2000 (3), Spring AGU 1999 (1), Fall AGU 1998 (1), Fall AGU 1997 (1), IUGG 1995 (1), IGAC 1994 (1)

VI. TEACHING

Lectures

Fall 2011: Princeton University CEE593/AOS593: Aerosol Observations & Modeling
Spring 2010: Princeton University CEE599B: Aerosol Observations & Modeling
Spring 2008: Princeton University AOS 580: Aerosol, Cloud and Climate Change
Summer 2007: ACCENT Summer School (Ile d'Oleron, France): Aerosols emission
2003-2007: Princeton University AOS-527: substituted 2-6 lectures a class

Supervision

Summer interns:
- Aaron Adams NOAA Hollings, 2011
- Arielle Alpert NOAA Hollings, 2011

Undergraduate student:
- Dmitri Garbuzov (CS, Princeton University): summers from 2007 to 2009

Graduate Student co-supervision or committee member:
- Geeta Persad (AOS, Princeton University): 2012 to present
- Jeffrey Strong (AOS, Princeton University): 2012 to present
- David Miller (CEE, Princeton University): 2010 to present
- Ilissa Ocko (AOS, Princeton University): 2009 to present
- Yan Zhang (CEE, Princeton University): 2010 PhD Graduation
- Fuyu Li (AOS, Princeton University): 2010 PhD Graduation
- Cynthia Randles (AOS, Princeton University): 2007 PhD Graduation

Post-doctoral:
- Dilip Ganguli (AOS, Princeton University): 2007 – 2010
- Brian Maggi (AOS, Princeton University): 2007 – 2010
- Shekar Reddy (AOS, Princeton University): 2004 - 2006