
CURRICULUM VITAE

Lyatt Jaeglé

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RESEARCH INTERESTS

Atmospheric chemistry modeling; Global simulations of the long-range transport of air pollutants;
Surface emissions of trace gases and particulates; Biogeochemical cycling of mercury.

EDUCATION

1991-1996 California Institute of Technology, Department of Environmental Engineering Science. M.S. (1992) and Ph.D. (1996). Ph.D. dissertation title: “*Stratospheric Chlorine and Nitrogen Chemistry: Observations and Modeling*”. Advisors: Dr. Christopher Webster & Professor Yuk Yung
1989-1991 Ecole Centrale de Lille, Villeneuve d'Ascq, France. Diplôme d'Ingénieur (1992)
1987-1989 Lycée Chaptal, Paris, France. Mathématiques Supérieures and Spéciales

EMPLOYMENT

2000-present Full Professor (2011-present), Associate Professor (2006-2011), and Assistant Professor (2000-2006), Department of Atmospheric Sciences, University of Washington
2009-2010 Invited Professor, Environmental Engineering Institute, Ecole Polytechnique Fédérale de Lausanne, Switzerland
1996-2000 Research Associate (1999-2000) and Postdoctoral Fellow (1996-1999), Department of Earth and Planetary Sciences, Harvard University
1991-1996 Graduate Research Assistant, California Institute of Technology

AWARDS

NSF Faculty Early Career Development (CAREER) Award (2003-2008)
NASA New Investigator Award (2001-2004)
Editor's Citation for Excellence in Refereeing, Journal of Geophysical Research – Atmospheres (2003)
University of Washington ADVANCE professor (2002)
NASA Group Achievement Awards: INTEX-B (2006), INTEX-A (2004), 1998 (SONEX), 1995 (ASHOE/MAESA), 1994 (SPADE)
Bourse Lavoisier (1991-92), fellowship from the French Ministry of Foreign Affairs

PROFESSIONAL OFFICES AND SERVICE

Science team member for the following aircraft missions: WINTER (2015), NOMADSS (2013), ARCTAS (2008), INTEX-B (2006), INTEX-A (2004), ITCT-2K2 (2002), SONEX (1997), SUCCESS (1996), ASHOE/MAESA (1994), SPADE (1992)
Advisory Board, Atmospheric Chemistry Laboratory, National Center for Atmospheric Research (NCAR), 2015-present
Executive editor, GeoResJ (2013-2015)
Editorial advisory board for Atmospheric Environment (2006-2010)

Reviewer for Journal of Geophysical Research, Geophysical Research Letters, Science, Atmospheric Environment, Atmospheric Chemistry and Physics, Journal of Atmospheric Sciences, Chemical Reviews, Proceedings of the National Academy of Sciences
GEOS-Chem Steering Committee member and chair of the mercury and persistent organic pollutants working group (2010-2013)
Participant in the UNEP Global Partnership of Atmospheric Mercury Transport and Fate Research (2008)
Proposal reviewer for National Aeronautics and Space Administration, National Science Foundation, National Oceanic and Atmospheric Administration. NSF review panel (2004). NASA review panels (2008, 2011, 2014, 2015).
Member of the NASA Earth Science Senior Review for the Mission Extension of Earth Science Operating Missions (2015 and 2017)
Outreach: participated in Geophysical Information for Teachers (GIFT) Workshop on “Vie avec une étoile: Interactions Soleil-Terre”, AGU-CGU Joint Assembly, Montréal, May 2004.
Co-organizer for the Atmospheric Chemistry workshop in Telluride, 2002.

UW COMMITTEES AND DUTIES

Departmental committees:

Committee on Graduate Studies (2017-present); Graduate Program Coordinator (2010-2017); Faculty search committee for Regional Climate Modeling position (2016); Chair of Committee on Graduate Studies (2006-2009); Committee on Graduate Studies, member (2003-2006); Graduate Curriculum Committee (2002-2010); Computer Committee (2003-2004); Strategic Planning Committee (2003-2004); Search Committee for Atmospheric Chemistry faculty position (2003); Department web site committee (2002).

University committees:

College of the Environment College Council (2017-present); Search Committee, Atmospheric Sciences faculty position (2017); Search committee for Environmental and Occupational Health Sciences faculty positions (2013); Senior Fellow, Joint Institute for the Study of the Atmosphere and Oceans (JISAO) (2004-present); Faculty Senate Representative (2008-2009); Program on Climate Change (PCC) board member (2003-2007); Mentor in Women in Science and Engineering (WISE) program (2004-2009); Search committee for Chair of Applied Mathematics Department (2007); PCC/JISAO postdoc selection committee (2004); Steering committee for the Global Environmental Chemistry Program (2002-2004); Panel member in the 17th Annual Women in Science and Engineering Conference (2008): “Science in a Real World: Making Life Better”; Panel member for “ADVANCE Assistant Professors Workshop: Applying for an NSF CAREER Grant” (2005). Panel member in UW’s Future Faculty Fellows Workshop (2007).

TEACHING

Graduate courses:

Atmospheric Chemistry Modeling (ATM S 565); Atmospheric Chemistry (ATM S 558); The Global Carbon Cycle and Greenhouse gases (ATM S/OCN/ESS 588); Fundamentals of Physics and Chemistry of the Atmosphere (ATM S 501)

Undergraduate courses:

Global Warming (ATM S 111); Climate and Climate Change (ATM S 211); Air Pollution (ATM S 212); Fundamentals of Atmospheric Chemistry (ATM S 358); Global Atmospheric Chemistry (ATM S 458)

GRADUATE STUDENTS SUPERVISED AS CHAIR

Students supervised as chair:

- Linda Steinberger (M.S. 2004) “Using space based observations of nitrogen dioxide and formaldehyde to map biomass burning emissions of NO_x and VOCs over Africa”
- Qing Liang (Ph.D. 2006) “Long-range transport of Asian pollution to North America: Mechanisms, chemistry and variability”
- Sarah Strode (Ph.D. 2008) “Mercury in the atmosphere and ocean: sources, transport, and global impact”
- Yurong Luan (M.S. 2011) “Variability in Long-range Transport of Aerosols from East Asia and North America”
- Maurizio Di Pierro (Ph.D. 2013) “Satellite observations of the spatial and seasonal distribution of Arctic aerosols”
- Yanxu Zhang (Ph.D. 2013) “Biogeochemical Cycling of Mercury in the Atmosphere-Ocean System: Global and Regional Modeling”
- Viral Shah (Ph.D., 2012-2018) “Sources, sinks and chemistry of aerosols and mercury over the United States”
- Kelsey Larson (M.S., 2015-2018) “Investigating the Sources of Anthropogenic Wintertime Pollutants in the northeast United States with a Lagrangian Dispersion Model”
- Jiayue Huang (Ph.D., 2013-present) “Sea ice sources of sea salt aerosols in polar regions”
- Jessica Haskins (M.S., 2014-present)

PEER-REVIEWED PUBLICATIONS (the principal author is the first author)

(Web of Science h-index = 36; Google Scholar h-index = 40; Total number of citations = 3,946; Average citations per item = 52.6; Web of Science, October 2018)

(⊕ indicates a paper by a student or postdoc advised by L. Jaeglé)

1. **Jaeglé, L.**, Shah, V., Thornton, J.A., Lopez-Hilfiker, F.D., Lee, B.H., McDuffie, E.E., Fibiger, D., Brown, S. S., Veres, P., Sparks, T., Ebben, C., Wooldridge, P.J., Kenagy, H.S., Cohen, R.C., Weinheimer, A.J., Campos, T.L., Montzka, D.D., Digangi, J.P., Wolfe, G.M., Hanisco, T., Schroder, J.C., Campuzano-Jost, P., Day, D.A., Jimenez, J.L., Sullivan, A.P., Guo, H., Weber, R.J., Nitrogen oxides emissions, chemistry, deposition, and export over the Northeast United States during the WINTER aircraft campaign. *J. Geophys. Res.-Atmos.*, in press. <https://doi.org/10.1029/2018JD029133>, 2018.
2. ⊕Shah, V., **Jaeglé, L.**, Thornton, J. A., Lopez-Hilfiker, F. D., Lee, B. H., Schroder, J. C., Campuzano-Jost, P., Jimenez, J.L., Guo, H., Sullivan, A.P., Weber, R.J., Green, J.R., Fiddler, M.N., Bililign, S., Campos, T.L., Stell, M., Weinheimer, A.J., Montzka, D.D., Brown, S.S., Chemical feedbacks weaken the wintertime response of particulate sulfate and nitrate to emissions reductions over the eastern United States. *Proc. Nat. Acad. Sci.*, 201803295. <https://doi.org/10.1073/pnas.1803295115>, 2018.
3. Schroder, J. C., Campuzano-Jost, P., Day, D. A., Shah, V., Larson, K., Sommers, J. M., Sullivan, A.P., Campos, T., Reeves, J.M., Hills, A., Hornbrook, R.S., Blake, N.J., Scheuer, E., Guo, H., Fibiger, D.L., McDuffie, E.E., Hayes, P.L., Weber, R.J., Dibb, J.E., Apel, E.C., **Jaeglé, L.**, Brown, S.S., Thornton, J.A., Jimenez, J.L., Sources and Secondary Production of Organic Aerosols in the Northeastern United States during WINTER. *J. Geophys. Res.-Atmos.*, 123, 7771–7796. <https://doi.org/10.1029/2018JD028475>, 2018.
4. Kenagy, H.S., Sparks, T.L., Ebben, C.J., Wooldridge, P.J., Lopez-Hilfiker, F.D., Lee, B.H., Thornton, J.A., McDuffie, E.E., Fibiger, D.L., Brown, S.S., Montzka, D.D., Weinheimer, A.J., Schroder, J.C., Campuzano-Jost, P., Day, D.A., Jimenez, J.L., Dibb, J.E., Campos, T., Shah, V., **Jaeglé, L.**, Cohen, R.C., NO_x Lifetime and NO_y Partitioning During WINTER. *J. Geophys.*

- Res.-Atmos.*, 123, 9813–9827. <https://doi.org/10.1029/2018JD028736>, 2018.
5. Lee, B.H., Lopez-Hilfiker, F.D., Veres, P.R., McDuffie, E.E., Fibiger, D.L., Sparks, T.L., Ebben, C.J., Green, J.R., Schroder, J.C., Campuzano-Jost, P., Iyer, S., D'Ambro, E.L., Schobesberger, S., Brown, S.S., Wooldridge, P.J., Cohen, R.C., Fiddler, M.N., Bililign, S., Jimenez, J.L., Kurtén, T., Weinheimer, A.J., **Jaeglé, L.**, Thornton, J.A., Flight Deployment of a High-Resolution Time-of-Flight Chemical Ionization Mass Spectrometer: Observations of Reactive Halogen and Nitrogen Oxide Species. *J. Geophys. Res.-Atmos.* 123, 7670–7686. <https://doi.org/10.1029/2017JD028082m>, 2018.
 6. Lee, B., Lopez-Hilfiker, F. D., Schroder, J. C., Campuzano-Jost, P., Jimenez, J. L., McDuffie, E. E., Fibiger, D., Veres, P., Brown, S.S., Campos, T., Weinheimer, A., Flocke, F., Norris, G., O'Mara, K., Green, J., Fiddler, M., Bililign, S., Shah, V., **Jaeglé, L.**, Thornton, J., Airborne observations of reactive inorganic chlorine and bromine species in the exhaust of coal-fired power plants, *J. Geophys. Res.-Atmos.*, <https://doi.org/10.1029/2018JD029284>, 2018.
 7. McDuffie, E. E., Fibiger, D. L., Dubé, W. P., Lopez-Hilfiker, F., Lee, B. H., Thornton, J. A., Shah, V., **Jaeglé, L.**, Guo, H., Weber, R. J., Reeves, J.M., Weinheimer, A.J., Schroder, J. C., Campuzano-Jost, P., Jimenez, J. L., Dibb, J. E., Veres, P., Ebben, C., Sparks, T.L., Wooldridge, P. J., Cohen, R.C., Hornbrook, R. S., Apel, E. C., Campos, T., Hall, S. R., Ullmann, K., Brown, S.S., Heterogeneous N₂O₅ Uptake During Winter: Aircraft Measurements During the 2015 WINTER Campaign and Critical Evaluation of Current Parameterizations. *J. Geophys. Res.-Atmos.*, 123, 4345–4372. <https://doi.org/10.1002/2018JD028336>, 2018.
 8. Ye, Z., Mao, H., Driscoll, C. T., Wang, Y., Zhang, Y., and **Jaeglé, L.**, Evaluation of CMAQ coupled with a state-of-the-art mercury chemical mechanism (CMAQ-newHg-Br). *Journal of Advances in Modeling Earth Systems*, 10. <https://doi.org/10.1002/2017MS001161>, 2018.
 9. **Jaeglé, L.**, R. Wood, and K. Wargan, Multi-year composite view of ozone enhancements and stratosphere-to-troposphere transport in dry intrusions of northern hemisphere extratropical cyclones, *J. Geophys. Res.*, 122, 13,436–13,457. <https://doi.org/10.1002/2017JD027656>, 2017.
 10. Carlton, A. G., and 35 others including **L. Jaeglé**, Synthesis of the Southeast Atmosphere Studies: investigating fundamental atmospheric chemistry questions, *Bull. Am. Soc.*, in press, 2017.
 11. ⊕Shah, V. and **L. Jaeglé**, Subtropical subsidence and surface deposition of oxidized mercury produced in the free troposphere, *Atmos. Chem. Phys.*, 17, 8999-9017, <https://doi.org/10.5194/acp-17-8999-2017>, 2017.
 12. Chen, Q., J. A. Schmidt, V. Shah, **L. Jaeglé**, T. Sherwen, and B. Alexander, Sulfate production by reactive bromine: Implications for the global sulfur and reactive bromine budgets, *Geophys. Res. Lett.*, 44, 7069–7078, doi:10.1002/2017GL073812, 2017.
 13. Bieser, J., F. Slemr, J. Ambrose, C. Brenninkmeijer, S. Brooks, A. Dastoor, F. DeSimone, R. Ebinghaus, C. N. Gencarelli, B. Geyer, L. E. Gratz, I. M. Hedgecock, D. Jaffe, P. Kelley, C.-J. Lin, **L. Jaeglé**, V. Matthias, A. Ryjkov, N. E. Selin, S. Song, O. Travnikov, A. Weigelt, W. Luke, X. Ren, A. Zahn, X. Yang, Y. Zhu, Y., and N. Pirrone, N., Multi-model study of mercury dispersion in the atmosphere: vertical and interhemispheric distribution of mercury species, *Atmos. Chem. Phys.*, 17, 6925-6955, <https://doi.org/10.5194/acp-17-6925-2017>, 2017.
 14. Zhu, L., D. J. Jacob, F. N. Keutsch, L. J. Mickley, R. Scheffe, M. Strum, G. González Abad, K. Chance, Y. Yang, B. Rappenglück, D. B. Millet, M. Baasandorj, **L. Jaeglé**, and V. Shah (2017), Formaldehyde (HCHO) As a Hazardous Air Pollutant: Mapping Surface Air Concentrations from Satellite and Inferring Cancer Risks in the United States, *Env. Sci. & Tech.*, 51 (10), 5650-5657, <https://doi.org/10.1021/acs.est.7b01356>, 2017.
 15. ⊕Huang, J. and **L. Jaeglé**, Wintertime enhancements of sea salt aerosol in polar regions consistent with a sea-ice source from blowing snow, *Atmos. Chem. Phys.*, 17, 3699-3712,

- doi:10.5194/acp-17-3699-2017, 2017.
16. Gratz, L. E., D. A. Jaffe, C. Knote, **L. Jaeglé**, N. E. Selin, T.L. Campos, F.M. Flocke, M. Reeves, D. Stechman, M. Stell, A. J. Weinheimer, D. J. Knapp, D. Montzka, G. S. Tyndall, R. L. Mauldin III, C. Cantrell, E. C. Apel, R. S. Hornbrook, N. J. Blake, Airborne observations of mercury emissions from the Chicago/Gary urban/industrial area during the 2013 NOMADSS campaign, *Atmos. Env.*, 145, 415-423, <https://doi.org/10.1016/j.atmosenv.2016.09.051>, 2016.
 17. Mackie, A.R., P.I. Palmer, J.M. Barlow, D.P. Finch, P. Novelli, **L. Jaeglé**, Reduced Arctic air pollution due to decreasing European and North American emissions, *J. Geophys. Res.*, 121, 8692–8700, <https://doi.org/10.1002/2016JD024923>, 2016.
 18. Song, S., N.E. Selin, L. E. Gratz, J. L. Ambrose, D. A. Jaffe, V. Shah, **L. Jaeglé**, A. Giang, B. Yuan, L. Kaser, E. C. Apel, R. S. Hornbrook, N. J. Blake, A. J. Weinheimer, R. L. Mauldin III, C. A. Cantrell, M. S. Castro, G. Conley, T. M. Holsen, W. T. Luke, R. Talbot, Constraints from observations and modeling on atmosphere-surface exchange of mercury in eastern North America, *Element*, <https://doi.org/10.12952/journal.elementa.000100>, 2016.
 19. ⊕Shah, V., **Jaeglé, L.**, Gratz, L. E., Ambrose, J. L., Jaffe, D. A., Selin, N. E., Song, S., Campos, T. L., Flocke, F. M., Reeves, M., Stechman, D., Stell, M., Festa, J., Stutz, J., Weinheimer, A. J., Knapp, D. J., Montzka, D. D., Tyndall, G. S., Apel, E. C., Hornbrook, R. S., Hills, A. J., Riemer, D. D., Blake, N. J., Cantrell, C. A., and Mauldin III, R. L.: Origin of oxidized mercury in the summertime free troposphere over the southeastern US, *Atmos. Chem. Phys.*, 16, 1511-1530, <https://doi.org/10.5194/acp-16-1511-2016>, 2016.
 20. Gratz, L.E., V. Shah, J.L. Ambrose, D.A. Jaffe, V. Shah, **L. Jaeglé**, J. Stutz, J. Festa, M. Spolaor, C. Tsai, N.E. Selin, S. Song, X. Zhou, A.J. Weinheimer, D.J. Knapp, D.D. Montzka, F.M. Flocke, T.L. Campos, E. Apel, R. Hornbrook, N.J. Blake, S. Hall, G.S. Tyndall, M. Reeves, D. Stechman, and M. Stell, Oxidation of mercury by bromine in the subtropical Pacific free troposphere, *Geophys. Res. Lett.*, 42, 10,494-10,502, <https://doi.org/10.1002/2015GL066645>, 2015.
 21. ⊕Zhang, Y., **L. Jaeglé**, L. A. Thompson, and D. G. Streets, Six centuries of changing oceanic mercury, *Global Biogeochem. Cycl.*, 28, <https://doi.org/10.1002/2014GB004939>, 2014.
 22. Jaffe, D. A., S. Lyman, H. M. Amos, M. S. Gustin, J. Huang, N. E. Selin, L. Levin, A. ter Schure, R. P. Mason, R. Talbot, A. Rutter, B. Finley, **L. Jaeglé**, V. Shah, C. McClure, J. Ambrose, L. Gratz, S. Lindberg, P. Weiss-Penzias, G.-R. Sheu, D. Feddersen, M. Horvat, A. Dastoor, A. J. Hynes, H. Mao, J. E. Sonke, F. Slemr, J. A. Fisher, R. Ebinghaus, Y. Zhang, and G. Edwards, Progress on Understanding Atmospheric Mercury Hampered by Uncertain Measurements, *Environ. Sci. Technol.*, 48 (13), pp 7204–7206, <https://doi.org/10.1021/es5026432>, 2014.
 23. ⊕Zhang, Y., **L. Jaeglé**, and L. Thompson, Natural biogeochemical cycle of mercury in a global three-dimensional ocean tracer model, *Glob. Biogeo. Cycl.*, 28, 553–570, 8, <https://doi.org/10.1002/2014GB004814>, 2014.
 24. Garçon, V.C., et al., including L. Jaeglé, Perspectives and Integration in SOLAS Science, Chap. 6, in *Ocean-Atmosphere Interactions of Gases and Particles*, editors: Liss, P. S. and Johnson, M. T., Springer, Heidelberg, 2013.
 25. ⊕Zhang, Y. and **L. Jaeglé**, Decreases in mercury wet deposition over the United States during 2004-2010: roles of domestic and global background emission reductions, *Atmosphere*, 4, 113-131, <https://doi.org/10.3390/atmos4020113>, 2013.
 26. ⊕Di Pierro, M., **L. Jaeglé**, E.W. Eloranta, and S. Sharma, Spatial and seasonal distribution of Arctic aerosols observed by CALIOP (2006–2012), *Atmos. Chem. Phys.*, 13, 7075-7095, <https://doi.org/10.5194/acp-13-7075-2013>, 2013.
 27. ⊕Luan, Y. and **L. Jaeglé**, Composite study of aerosol export events from East Asia and North America, *Atmos. Chem. Phys.*, 13, 1221-1242, <https://doi.org/10.5194/acp-13-1221-2013>,

2013.

28. Zhang, Y., **L. Jaeglé**, A. van Donkelaar, R. V. Martin, C. D. Holmes, H. M. Amos, Q. Wang, R. Talbot, R. Artz, S. Brooks, W. Luke, T. M. Holsen, D. Felton, E. K. Miller, K. D. Perry, D. Schmeltz, A. Steffen, R. Tordon, P. Weiss-Penzias, R. Zsolway, Nested-grid simulation of mercury over North America, *Atmos. Chem. Phys.*, 6095-6111, <https://doi.org/10.5194/acp-12-6095-2012>, **2012**.
29. **Jaeglé**, L., P.K. Quinn, T. Bates, B. Alexander, and J.-T. Lin, Global distribution of sea salt aerosols: New constraints from in situ and remote sensing observations, *Atmos. Chem. Phys.*, 11, 3137-3157, <https://doi.org/10.5194/acp-11-3137-2011>, **2011**.
30. Di Pierro, M., **L. Jaeglé**, and T.L. Anderson, Satellite observations of aerosol transport from East Asia to the Arctic: Three case studies, *Atmos. Chem. Phys.*, 11, 2225-2243, <https://doi.org/10.5194/acp-11-2225-2011>, **2011**.
31. Strode, S., **L. Jaeglé**, S. Emerson, Vertical transport of anthropogenic mercury in the ocean, *Glob. Biogeochem. Cycl.*, in press, 24, 10 pages, <https://doi.org/10.1029/2009GB003728>, **2010**.
32. Mao, J., D.J. Jacob, M.J. Evans, J.R. Olson, X. Ren, W.H. Brune, J.M.S. Clair, J.D. Crouse, K.M. Spencer, M.R. Beaver, P.O. Wennberg, M.J. Cubison, J.L. Jimenez, A. Fried, P. Weibring, J.G. Walega, S.R. Hall, A.J. Weinheimer, R.C. Cohen, G. Chen, J.H. Crawford, **L. Jaeglé**, J.A. Fisher, R.M. Yantosca, P. Le Sager, and C. Carouge, Chemistry of hydrogen oxide radicals (HO_x) in the Arctic troposphere in spring, *Atmos. Chem. Phys.*, 10, 5823-5838, <https://doi.org/10.5194/acp-10-5823-2010>, **2010**.
33. Rice, A., P. Quay, J. Stutsman, R. Gammon, H. Price, **L. Jaeglé**, Meridional distribution of molecular hydrogen and its deuterium content in the atmosphere, *J. Geophys. Res.*, 115, D12306, <https://doi.org/10.1029/2009JD012529>, 12 pages, **2010**.
34. Fischer, E.V., D.A. Jaffe, D.R. Reidmiller, and **L. Jaeglé**, Meteorological controls on observed peroxyacetyl nitrate at Mount Bachelor during the spring of 2008, *J. Geophys. Res.*, 115, D03302, <https://doi.org/10.1029/2009JD012776>, 18 pages, **2010**.
35. Strode, S., **L. Jaeglé**, and N.E. Selin, Impact of mercury emissions from historic gold and silver mining: Global modeling, *Atmos. Env.*, 43, 2012-2017, <https://doi.org/10.1016/j.atmosenv.2009.01.006>, **2009**.
36. Strode, S., **L. Jaeglé**, D.A. Jaffe, P. Swartzendruber, N. E. Selin, C. Holmes, and R. Yantosca, Trans-Pacific transport of mercury, *J. Geophys. Res.*, 113, D15305, <https://doi.org/10.1029/2007JD009428>, 12 pages, **2008**.
37. Selin, N.E., D.J. Jacob, R. Yantosca, S. Strode, **L. Jaeglé**, and E. Sunderland, Global 3-D land-ocean-atmosphere model for mercury: Present-day versus preindustrial cycles and anthropogenic enrichment factors for deposition, *Global Biogeochem. Cycles*, 22, GB2011, <https://doi.org/10.1029/2007GB003040>, 13 pages, **2008**.
38. Swartzendruber, P., D. Chand, D. Jaffe, J. Smith, D. Reidmiller, L. Gratz, J. Keeler, S. Strode, **L. Jaeglé**, and R. Talbot, Vertical distribution of mercury, CO, ozone, and aerosol scattering coefficient in the Pacific Northwest during the spring 2006 INTEX-B campaign, *J. Geophys. Res.*, 113, D10305, <https://doi.org/10.1029/2007JD009579>, 15 pages, **2008**.
39. Thornton, J.A., **L. Jaeglé**, and V.F. McNeill, Assessing known pathways for HO₂ loss in aqueous atmospheric aerosols: Regional and global impacts on tropospheric oxidants, *J. Geophys. Res.*, 113, D05303, <https://doi.org/10.1029/2007JD009236>, 15 pages, **2008**.
40. Price, H.U., **L. Jaeglé**, A.L. Rice, P.D. Quay, P.C. Novelli, and R.H. Gammon, Global budget of molecular hydrogen and its deuterium content: Constraints from ground station, cruise, and aircraft observations, *J. Geophys. Res.*, 112, D22108, <https://doi.org/10.1029/2006JD008152>, 16 pages, **2007**.
41. Liang, Q., **L. Jaeglé**, et al., Summertime influence of Asian pollution in the free troposphere

- over North America, *J. Geophys. Res.*, 112, D12S11, <https://doi.org/10.1029/2006JD007919>, 20 pages, 2007.
42. Sauvage, B., R.V. Martin, A. van Donkelaar, X. Liu, K. Chance, **L. Jaeglé**, P.I. Palmer, S. Wu, and T.-M. Fu, Remote sensed and in situ constraints on processes affecting tropical tropospheric ozone, *Atmos. Chem. Phys.*, 7, 815-838, <https://doi.org/10.5194/acp-7-815-2007>, 2007.
 43. ⓅStrode S.A., **L. Jaeglé**, N.E. Selin, D.J. Jacob, R.J. Park, R.M. Yantosca, R.P. Mason, F. Slemr, Air-sea exchange in the global mercury cycle, *Global Biogeochem. Cycles*, 21, GB1017, <https://doi.org/10.1029/2006GB002766>, 12 pages, 2007.
 44. Selin N.E., D.J. Jacob, R.J. Park, R.M. Yantosca, S. Strode, **L. Jaeglé**, D. Jaffe, Chemical cycling and deposition of atmospheric mercury: Global constraints from observations, *J. Geophys. Res.*, 112, D02308, <https://doi.org/10.1029/2006JD007450>, 14 pages, 2007.
 45. McKendry, I., K. Strawbridge, N. O'Neil, A.M. Macdonald, P. Liu, R. Leaitch, K. Anlauf, **L. Jaeglé**, T. Fairlie, and D. Westphal, Trans-Pacific transport of Saharan dust to western North America: A case study, *J. Geophys. Res.*, 112, D01103, <https://doi.org/10.1029/2006JD007129>, 13 pages, 2007.
 46. Swartzendruber, P.C., D.A. Jaffe, E.M. Prestbo, P. Weiss-Penzias, N.E. Selin, R. Park, D. Jacob, S. Strode, and **L. Jaeglé**, Observations of reactive gaseous mercury in the free-troposphere at the Mt. Bachelor observatory, *J. Geophys. Res.*, 111, D24302, doi:10.1029/2006JD007415, 12 pages, 2006.
 47. **Jaeglé, L.**, L. Steinberger, R.V. Martin, and K. Chance, Global partitioning of NO_x sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions, *Faraday Discussions*, 130, 407-433, doi:10.1039/b502128f, 2005.
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OTHER PUBLICATIONS (non peer-reviewed)

- **Jaeglé, L.**, Atmospheric Long-Range Transport and Deposition of Mercury to Alaska, *A report to the Alaska Department of Environmental Conservation*, **2010**.
- **Jaeglé, L.**, S. Strode, N. Selin, and D. Jacob, Chap. 18: The GEOS-Chem Model, in *Mercury Fate and Transport in the Global Atmosphere*, N. Pirrone, and R. Mason (editors), p. 720, Springer-Verlag, Berlin, **2009**.
- **Jaeglé, L.**, Pumping up surface air, *Science*, *315* (5813), 772-773, **2007**.

RESEARCH GRANTS & CONTRACTS (with L. Jaeglé as the P.I.)

- **Environmental Protection Agency**, 2016-2018, **\$88,000**, “Modeling the effects of ClNO₂ on downwind transport of NO_x during winter”, graduate fellowship for Jessica Haskins.
- **National Aeronautics and Space Administration**, 2015-2018, **\$385,757**, “Sea salt aerosols and their effects on global tropospheric chemistry”.
- **National Aeronautics and Space Administration**, 2011-2015, **\$450,720**, “Midlatitude Cyclones and Atmospheric Composition: A Multi-Sensor Satellite Study”.

- **National Aeronautics and Space Administration**, 2011-2013, **\$60,000**, “Satellite observations of Arctic Aerosols”, Graduate fellowship for Maurizio DiPierro.
- **Electric Power Research Institute**, 2012-2013, **\$87,447**, “Factors influencing trends in mercury wet deposition over the United States”.
- **Electric Power Research Institute**, 2010-2011, **\$75,394**, “Mercury Deposition over the Gulf Coast Region: High Resolution Nested-Grid Modeling”.
- **Boeing Company**, 2010-2011, **\$35,774**, “Impacts of aircraft emissions on surface air quality: Global modeling study”.
- **Alaska Department of Environmental Conservation**, State of Alaska, 2009-2010, **\$63,291**, “Atmospheric Long-range transport and deposition of mercury to Alaska”.
- **National Aeronautics and Space Administration**, 2008-2011, **\$322,144**, “Intercontinental transport of pollution: Constraints from satellite observations”.
- **National Aeronautics and Space Administration**, 2008-2011, **\$259,443**, “Integrated satellite and modeling study of pollution transport into the Arctic”.
- **National Science Foundation**, 2003-2008, **\$516,479**, “CAREER: Global modeling of long-range transport of tropospheric ozone and mercury”.
- **National Aeronautics and Space Administration**, 2001-2004, **\$237,000**, “Using satellite observations to quantify biomass burning emissions of NO_x and hydrocarbons in the Tropics”.
- **ADVANCE**, National Science Foundation, 2002, **\$13,500**, “Transitional Support Program”, University of Washington.

RESEARCH GRANTS & CONTRACTS (L. Jaeglé as Co-I, only her portion of the funding is listed)

- **National Science Foundation**, 2014-2017, co-PI with Joel Thornton (PI), **\$355,315**, “Collaborative Research: Wintertime Emissions, Transformations, and Transport in the Northeastern U.S. (WETTNUM)”.
- **National Science Foundation**, 2012-2015, co-PI with Dan Jaffe (PI), **\$314,594**, “Collaborative Research: The North American Mercury Airborne Mercury Experiment (NAAMEX)”.
- **National Aeronautics and Space Administration**, 2008-2009, Co-I with Daniel Jacob (PI), **\$15,666**, “Participation in ARCTAS field campaign”, subcontract to Harvard.
- **National Aeronautics and Space Administration**, 2005, Co-I with Daniel Jacob (PI), **\$29,144**, “Mission design and chemical forecasting for INTEX-B, and post-mission data analysis for INTEX-A and -B”.
- **National Aeronautics and Space Administration**, 2004, Co-PI with Daniel Jacob (PI) and Steven Pawson (Co-PI), **\$29,647**, “Chemical forecasting and quick-look CTM analysis in support of INTEX-A”.
- **National Oceanic and Atmospheric Administration**, August 2001-August 2003, Climate and Global Change Program, Co-PI with Dan Jaffe (PI), **\$20,654**, “Trans-Pacific transport of ozone, carbon monoxide and particulates”.
- **National Park Service**, 2002-2003, Co-PI with Dan Jaffe (PI), **\$22,876**, “Atmospheric transport component: Western Airborne Contaminants Assessment Project”

INVITED SEMINARS (since 1998)

Harvard University (2017); University of British Columbia, Canada (2016); NASA Langley Research Center (2015); Rutgers, Newark (2012); University of Toronto, Canada (2011); Ecole Polytechnique Fédérale de Lausanne, Switzerland (2010); University of Washington (2017, 2011, 2009, 2007, 2005, 2004, 2002, 2001, 2000); California Institute of Technology (2005); Jet Propulsion Laboratory (2005); NOAA Aeronomy Laboratory (2001); University of Chicago (1999); Goddard Space Flight Center (1999); University of Pennsylvania (1999); Harvard University (1998).

SELECTED MEETING ABSTRACTS AND PRESENTATIONS (since 2001)

- L. Jaeglé, R. Wood, and K. Wargan, Multi-year composite view of ozone enhancements and stratosphere-to-troposphere transport in dry intrusions of northern hemisphere extratropical cyclones, AGU Meeting, New Orleans, December 2017.
- V. Shah, L. Jaeglé, and 12 others, Aircraft-based observations and modeling of wintertime submicron aerosol composition over the Northeastern U.S., AGU Meeting, New Orleans, December 2017.
- J. Haskins, L. Jaeglé, and 15 others, Constraining wintertime sources of inorganic chlorine over the northeast United States, AGU Meeting, New Orleans, December 2017.
- L. Jaeglé, Extratropical cyclones and stratosphere-troposphere exchange of ozone, Atmospheric Physics and Chemistry seminar, University of Washington, October 2017.
- Jaeglé, L., Composite view of ozone stratosphere-troposphere exchange in midlatitude cyclones, American Meteorological Society, Seattle, January 2017.
- V. Shah, L. Jaeglé and WINTER science team, Aircraft-Based Measurements and Modeling of Submicron Aerosols over Northeastern U.S. during the WINTER 2015 Campaign, American Meteorological Society, Seattle, January 2017.
- J. Huang, and L. Jaeglé, Assessing the Contributions of Open Ocean, Blowing Snow and Frost Flowers as Sources of Sea Salt Aerosol over Polar Regions, American Meteorological Society, Seattle, January 2017.
- V. Shah, and L. Jaeglé, Tagging the origin of oxidized mercury in surface deposition, abstract B33D-0630, American Geophysical Union, San Francisco, Dec 12-16, 2016.
- L., Jaeglé, and WINTER science team, Sources, Chemistry, and Transport of Pollutants over the Eastern United States During the WINTER 2015 Aircraft Campaign, abstract A34F-03, AGU Fall Meeting, San Francisco, Dec 14-18, 2015. Invited Speaker.
- J. Huang and L. Jaeglé, Sea aerosols in polar regions: Constraining the relative roles of blowing snow and open ocean sources, abstract A11C-0050, AGU Fall Meeting, San Francisco, Dec 14-18, 2015.
- J.A. Thornton and WINTER science team (including Jaeglé), An overview of reactive chlorine measurements during the WINTER C-130 aircraft campaign, abstract A34F-04, AGU Fall Meeting, San Francisco, Dec 14-18, 2015.
- V. Shah, L. Jaeglé and WINTER science team, Sources and Distributions of Secondary Aerosols over the Northeastern United States during the WINTER Aircraft Campaign, abstract A41K-0217, AGU Fall Meeting, San Francisco, Dec 14-18, 2015.
- J. Haskins, L. Jaeglé and WINTER science team, Examining the Role of N_2O_5 Hydrolysis and $ClNO_2$ Production Over the Northeast United States: Results from WINTER 2015 Aircraft Campaign, abstract A41K-0227, AGU Fall Meeting, San Francisco, Dec 14-18, 2015.
- V. Shah, Jaeglé, L., et al. "NOMADSS Aircraft Observations Suggest Rapid Oxidation of Elemental Mercury in the Subtropical Free Troposphere", abstract B43F-0298, presented at the 2014 American Geophysical Union, 15-19 Dec.
- L. Jaeglé, "Sources and distribution of sea salt aerosols from the Tropics to the Arctic", SOLAS Symposium, Rehovot, Israel, June 19, 2014, contributed.
- V. Shah, L. Jaeglé, L. Gratz, J. L. Ambrose; D. A. Jaffe, "Investigating the chemistry of reactive mercury using the GEOS-Chem model", Southeast Atmosphere Study (SAS) Data Workshop, March 31-April 2, 2014, Boulder, Colorado, contributed.
- L. Jaeglé and M. Di Pierro, "A Missing Wintertime Source of Aerosols over the Arctic Inferred from Satellite and In Situ Observations", American Geophysical Union, San Francisco, December 2013, contributed.
- L. Jaeglé et al., "Sources and Chemistry of Mercury over the Eastern United States during the NOMADSS Campaign (Invited)". American Geophysical Union, San Francisco, December 2013,

invited.

- V. Shah, L. Jaeglé, L. Gratz, J. L. Ambrose; D. A. Jaffe, “Origin of the high oxidized mercury concentrations observed over the southwestern US during the NOMADSS campaign”, American Geophysical Union, San Francisco, December 2013, contributed.
- L. Jaeglé, Y. Zhang, L. Thompson, “The past 600 years: Changing mercury concentrations in a global 3D ocean tracer model”, oral presentation at the International Conference of Mercury as a Global Pollutant, Edinburgh, Scotland, July 28-August 2, 2013, invited.
- L. Jaeglé, and Y. Zhang, “Decreases In Mercury Wet Deposition Over The United States During 2004 – 2010: Roles Of Domestic And Global Background Emission Reductions”, American Geophysical Union, San Francisco, December 2012, contributed.
- Di Pierro, M. and L. Jaeglé, “Seasonal and spatial distribution of arctic aerosols observed by CALIOP (2006-2011)”, American Geophysical Union, San Francisco, December 2012, contributed.
- Zhang, Y., L. Jaeglé et al. “Modeling the Natural Biogeochemical Cycle of Mercury in the Global Ocean”, American Geophysical Union, San Francisco, December 2012, contributed.
- Jaeglé, L. and Y. Luan, “Composite study of aerosol long-range transport events from East Asia and North America”, American Geophysical Union, San Francisco, December 2011, contributed.
- Zhang, Y., L. Jaeglé, L. Thompson, D. Trossman, A. Shao, “Marine cycling of mercury: Results from a new 3D global ocean tracer simulation”, American Geophysical Union, San Francisco, December 2011, contributed.
- Zhang, Y., L. Jaeglé, et al., “Nested-grid modeling of mercury wet deposition over North America”, 10th International conference of mercury as a global pollutant, Halifax, Nova Scotia, Canada, July 2011, contributed.
- Jaeglé, L., “New constraints on the global distribution of sea salt aerosols”, 5th International GEOS-Chem Meeting, Harvard University, May 2011, invited.
- Jaeglé, L. and Y. Zhang, “Mercury Deposition over the Gulf Coast Region: High-Resolution Nested-Grid Modeling”, Electric Power Research Institute: Advisors’ Meeting, February 2011, invited.
- Di Pierro, M., L. Jaeglé, T. Anderson, “Episodes of aerosol pollution and dust exported from East Asia to the Arctic: satellite observations”, American Meteorological Society, January 2011.
- Jaeglé, L., “Atmospheric Long-Range Transport and Deposition of Mercury to Alaska”, Alaska Quicksilver Summit, Girdwood, Alaska, October 2010, invited.
- Zhang, Y. and L. Jaeglé, “Nested-grid Modeling of Mercury Wet Deposition over the Southeast U.S.”, American Geophysical Union, San Francisco, December 2010.
- Jaeglé, L. “Global distribution of sea salt aerosols: New constraints from in situ and remote sensing observations”, American Geophysical Union, San Francisco, December 2010.
- Jaeglé, L., “Can we constrain sea-salt emissions over the Southern Ocean?”, GEOS-Chem 4th Users’ Meeting, Harvard University, Cambridge, April 2009, invited.
- Di Pierro, M., and L. Jaeglé, “Arctic Haze: Comparing CALIPSO and GEOS-Chem”, GEOS-Chem 4th Users’ Meeting, Harvard University, Cambridge, April 2009, invited.
- Jaeglé, L., and D. Jaffe, “North American Mercury Experiment”, Workshop on mercury observations uncertainties, Seattle, October 2008, invited.
- Jaeglé, L., “Global and Regional Modeling of Mercury”, HTAP, Washington-DC, June 2008, invited.
- Jaeglé, L., S. Strode, N. Selin, and D. Jacob, “The GEOS-Chem mercury model”, UNEP-Fate and Transport, Rome, April 2008, invited.
- Strode, S., L. Jaeglé, N. Selin, and E. Sunderland, “Constraining Modern and Historic Mercury Emissions From Gold Mining”, AGU Fall Meeting, Dec. 10-14, 2007, contributed.
- Jaeglé, L. and R. Wood, “Using Satellite Composites to examine transport of gases and aerosols in midlatitude cyclones”, AGU Fall Meeting, Dec. 10-14, 2007, invited.

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- Jaeglé, L., “Using satellite observations to determine transport of trace gases and aerosols in midlatitude cyclones”, Gordon Conference in Atmospheric Chemistry, Big Sky, Montana, August 27-31, 2007, invited.
- Strode, S., L. Jaeglé, et al., “Transpacific transport of mercury”, GEOS-Chem 3rd Users’ meeting, Harvard University, April 11-13, 2007.
- Jaeglé, L., “Sensitivity of surface O₃ to soil NO_x emissions”, GEOS-Chem 3rd Users’ meeting, Harvard University, April 11-13, 2007.
- Strode, S., L. Jaeglé, N. Eckley Selin, D. J. Jacob, R. Park, R. Yantosca, “Global Simulation of Air-Sea Exchange of Mercury”, American Geophysical Union, San Francisco, 5-9 December 2005, contributed.
- Liang, Q., L. Jaeglé, et al., “Summertime influence of Asian pollution in the middle and upper troposphere during INTEX-A”, American Geophysical Union, San Francisco, 5-9 December 2005, contributed.
- Jaeglé, L., Steinberger, R.V. Martin, and K. Chance, “Global partitioning of NO_x sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions”, Faraday Discussions in Atmospheric Chemistry, Leeds, United Kingdom, April 11-13 2005, invited.
- Liang, Q., L. Jaeglé, et al., “Summertime influence of Asian pollution in the middle and upper troposphere during INTEX-A”, ICARTT data analysis workshop, New Hampshire, 9-12 August 2005, contributed.
- Jaeglé, L., R. Martin and K. Chance, “Soil Emissions of Nitrogen Oxides: Constraints From Satellite Observations”, American Geophysical Union, San Francisco, 5-9 December 2005, invited.
- Jaeglé, L., R. Martin and K. Chance, “Soil Emissions of Nitrogen Oxides: Constraints From Satellite Observations”, American Geophysical Union, San Francisco, 5-9 December 2005, invited.
- Liang, Q., L. Jaeglé, et al., “Summertime influence of Asian pollution in the middle and upper troposphere during INTEX-A”, ICARTT data analysis workshop, New Hampshire, 9-12 August 2005, contributed.
- Jaeglé, L., Steinberger, R.V. Martin, and K. Chance, “Global partitioning of NO_x sources using satellite observations: Relative roles of fossil fuel combustion, biomass burning and soil emissions”, Faraday Discussions in Atmospheric Chemistry, Leeds, United Kingdom, April 11-13 2005, invited.
- Strode, S., L. Jaeglé, N. Eckley, and D.J. Jacob, “The role of ocean emissions in the global budget of mercury”, GEOS-CHEM 2nd Users’ Meeting, Harvard University, Cambridge, April 4-6 2005, contributed.
- Price, H., L. Jaeglé, et al., “Global simulation of H₂ and HD using GEOS-CHEM”, GEOS-CHEM 2nd Users’ Meeting, Harvard University, Cambridge, April 4-6 2005, contributed.
- Liang, Q., L. Jaeglé, J.M. Wallace, “Meteorological indices for transpacific transport”, GEOS-CHEM 2nd Users’ Meeting, Harvard University, Cambridge, April 4-6 2005, contributed.
- Jaeglé, L., “Global partitioning of NO_x emissions using satellite observations”, GEOS-CHEM 2nd Users’ Meeting, Harvard University, Cambridge, April 4-6 2005, contributed.
- Liang, Q., L. Jaeglé and INTEX-A science team, “Summertime influence of Asian pollution in the middle and upper troposphere over the United States”, Virginia Beach, INTEX-A data workshop, March 30 2005, contributed.
- Price, H., L. Jaeglé, P.D. Quay, et al., “Molecular hydrogen in a global chemical transport model: Constraints from surface observations of H₂ and HD”, American Geophysical Union, San Francisco, 13-17 December 2004, contributed.
- Strode, S., L. Jaeglé, N. Eckley, Rokjin Park and D.J. Jacob, “Role of ocean-atmosphere exchange in a global mercury model”, 7th International Conference on Mercury as a global pollutant, Slovenia, 27 June-2 July, 2004, contributed.

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- Jaeglé, L., et al., “Satellite mapping of rain-induced nitric oxide emissions from soils over Africa”, American Geophysical Union, Montréal, Canada, May 17-22 2004, contributed.
- Jaeglé, L., Q. Liang, L. Steinberger, S. Strode, “GEOS-CHEM at the University of Washington”, GEOS-CHEM Users’ Workshop, Harvard, Cambridge, 2-3 November 2003, contributed.
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