

NAME, First Name: VERNIER, Jean-Paul

Affiliation: National Institute of Aerospace, NASA Langley Research Center, Hampton, USA

Role in the project: Bring expertise in satellite observations of stratospheric aerosols using lidar and solar occultation techniques. Principal investigators of multiple balloon field experiments to study stratospheric aerosols since 2014. All Tasks.

Current position: Senior Research Scientist

Education:

- University of Versailles, France, 2006-2010, Ph.D. in Atmospheric Sciences

- University of Toulon, France, 2003-2006

M.S. in Meteorology and Oceanography

M.S. in Ocean Engineering

Services in National and/or International Committees (most recent nominations): Steering Committee of the Stratospheric Aerosol and Its Role and Climate (SSiRC initiative), Co-lead of the Volcano Response project

Selected Publications:

Thomason, L. W., Ernest, N., Millán, L., Rieger, L., Bourassa, A., Vernier, J.-P., ... Peter, T. (2018). A global space-based stratospheric aerosol climatology: 1979-2016. *Earth System Science Data*, 10(1). <https://doi.org/10.5194/essd-10-469-2018>

Vernier, J.-P., Fairlie, T. D., Deshler, T., Venkat Ratnam, M., Gadhavi, H., Kumar, B. S., ... Renard, J.-B. (2018). BATAL: The balloon measurement campaigns of the Asian tropopause aerosol layer. *Bulletin of the American Meteorological Society*, 99(5). <https://doi.org/10.1175/BAMS-D-17-0014.1>

Vernier, J.-P., Kalnajs, L., Diaz, J. A., Reese, T., Corrales, E., Alan, A., ... Murray, J. (2020). VolKilauea: Volcano rapid response balloon campaign during the 2018 Kilauea eruption. *Bulletin of the American Meteorological Society*. <https://doi.org/10.1175/BAMS-D-19-0011.1>

Vernier, H., Rastogi, N., Liu, H., Pandit, A. K., Bedka, K., Patel, A., Ratnam, M. V., Kumar, B. S., Zhang, B., Gadhavi, H., Wienhold, F., Berthet, G., and Vernier, J.-P.: Exploring the inorganic composition of the Asian Tropopause Aerosol Layer using medium-duration balloon flights, *Atmos. Chem. Phys.*, 22, 12675–12694, <https://doi.org/10.5194/acp-22-12675-2022>, 2022