

Listed below are known citations to the NASA Socioeconomic Data and Applications Center (SEDAC) *Air Quality Data for Health-Related Applications* data collection. The data collection, and specific data set (if known), being cited are beneath each citation. Citations to multiple collections/sets are listed on separate lines. If a publication cites remotely sensed earth observation data, whether from NASA or another source, those instruments and/or platforms are listed as well.

List last updated on 3 October 2023.

Bai, J., Pugh, S. L., Eldridge, R., Yeager, K. A., Zhang, Q., Lee, W. R., . . . Bruner, D. W. (2023). Neighborhood deprivation and rurality associated with patient-reported outcomes and survival in men with prostate cancer in NRG RTOG 0415. *International Journal of Radiation Oncology*Biophysics*Physics*, 116(1), 39-49. doi:10.1016/j.ijrobp.2023.01.035

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

Costello, J. M. (2022). *Air Quality and Preterm Birth: Distance to Highways, Exposure to Wildfires, and Effect Modification by COVID-19*. (Ph.D.). University of California, San Francisco, San Francisco. Retrieved from <https://escholarship.org/uc/item/7x23x3zp>

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

Ebisu, K., & Basu, R. (2022). Selecting exposure data and identifying relevant exposure windows for birth outcome studies. *Paediatric and Perinatal Epidemiology*, 36(1), 90-91. doi:10.1111/ppe.12844

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

Heft-Neal, S., Driscoll, A., Yang, W., Shaw, G., & Burke, M. (2022). Associations between wildfire smoke exposure during pregnancy and risk of preterm birth in California. *Environmental Research*, 203, 111872. doi:10.1016/j.envres.2021.111872

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

REMOTE SENSING (GOES)

Heo, S., & Bell, M. L. (2023). Investigation on urban greenspace in relation to sociodemographic factors and health inequity based on different greenspace metrics in 3 US urban communities. *Journal of Exposure Science & Environmental Epidemiology*, 33, 218-228. doi:10.1038/s41370-022-00468-z

Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O₃ Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

NASA REMOTE SENSING (MODIS)

Jin, T., Di, Q., Réquia, W. J., Danesh Yazdi, M., Castro, E., Ma, T., . . . Schwartz, J. (2022). Associations between long-term air pollution exposure and the incidence of cardiovascular diseases among American older adults. *Environment International*, 170, 107594. doi:10.1016/j.envint.2022.107594

Air Quality Data for Health-Related Applications (Daily and Annual NO2 Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/f8eh-5864

Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O3 Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/a4mb-4t86

Air Quality Data for Health-Related Applications (Daily and Annual PM2.5 Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/0rvr-4538

Gridded Population of the World (GPW) v4.11 (population density) - 10.7927/H49C6VHW

Kelp, M. M., Lin, S., Kutz, J. N., & Mickley, L. J. (2022). A new approach for determining optimal placement of PM2.5 air quality sensors: case study for the contiguous United States. *Environmental Research Letters*, 17(3), 034034. doi:10.1088/1748-9326/ac548f

Air Quality Data for Health-Related Applications (Daily and Annual PM2.5 Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/0rvr-4538

Knobel, P., Hwang, I., Castro, E., Sheffield, P., Holaday, L., Shi, L., . . . Yitshak Sade, M. (2023). Socioeconomic and racial disparities in source-apportioned PM2.5 levels across urban areas in the contiguous US, 2010. *Atmospheric Environment*, 303, 119753. doi:10.1016/j.atmosenv.2023.119753

Air Quality Data for Health-Related Applications (Annual Mean PM2.5 Components (EC, NH4, NO3, OC, SO4) 50m Urban and 1km Non-Urban Area Grids for Contiguous U.S., v1)

Air Quality Data for Health-Related Applications (Annual Mean PM2.5 Components Trace Elements (TEs) 50m Urban and 1km Non-Urban Area Grids for Contiguous U.S., v1)

Ma, T., Yazdi, M. D., Schwartz, J., Réquia, W. J., Di, Q., Wei, Y., . . . Shi, L. (2022). Long-term air pollution exposure and incident stroke in American older adults: A national cohort study. *Global Epidemiology*, 4, 100073. doi:10.1016/j.gloepi.2022.100073

Air Quality Data for Health-Related Applications (Daily and Annual PM2.5 Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily and Annual NO2 Concentrations for the Contiguous United States, 1-km Grids, v1)

NASA REMOTE SENSING (MODIS - MOD13C2)

Mork, D., Braun, D., & Zanobetti, A. (2023). Time-lagged relationships between a decade of air pollution exposure and first hospitalization with Alzheimer's disease and related dementias. *Environment International*, 171, 107694. doi:10.1016/j.envint.2022.107694

Air Quality Data for Health-Related Applications (Daily and Annual NO2 Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily and Annual PM2.5 Concentrations for the Contiguous United States, 1-km Grids, v1)

Peralta, A. A., Gold, D. R., Yazdi, M. D., Wei, Y., & Schwartz, J. (2023). The role of short-term air pollution and temperature on arterial stiffness in a longitudinal closed cohort of elderly individuals. *Environmental Research*, 216(Part 2), 114597. doi:10.1016/j.envres.2022.114597

Air Quality Data for Health-Related Applications (Daily and Annual PM2.5 Concentrations for the

Contiguous United States, 1-km Grids, v1) - 10.7927/Orvr-4538

Qiu, X., Shi, L., Kubzansky, L. D., Wei, Y., Castro, E., Li, H., . . . Schwartz, J. D. (2023). Association of long-term exposure to air pollution with late-life depression in older adults in the US. *JAMA Network Open*, 6(2), e2253668-e2253668. doi:10.1001/jamanetworkopen.2022.53668

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O₃ Concentrations for the Contiguous United States, 1-km Grids, v1)

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

Schlosser, C. A., Frankenfeld, C., Eastham, S. D., Gao, X., Gurgel, A., McCluskey, A., . . . Reilly, J. (2022). *Assessing Compounding Risks Across Multiple Systems and Sectors: A Socio-Environmental Systems Risk-Triage Approach*. Retrieved from Cambridge, MA: <https://globalchange.mit.edu/publication/17873>

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/Orvr-4538

Gridded Population of the World (GPW) v4.11 (population density UN WPP-adjusted) - 10.7927/H4F47M65

Gridded Population of the World (GPW) v4.11 (land and water area)

NASA REMOTE SENSING (Worldview)

Shi, L., Steenland, K., Li, H., Liu, P., Zhang, Y., Lyles, R. H., . . . Schwartz, J. (2021). A national cohort study (2000–2018) of long-term air pollution exposure and incident dementia in older adults in the United States. *Nature Communications*, 12(1), 6754. doi:10.1038/s41467-021-27049-2

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/Orvr-4538

Wang, C., Amini, H., Xu, Z., Peralta, A. A., Yazdi, M. D., Qiu, X., . . . Schwartz, J. D. (2023). Long-term exposure to ambient fine particulate components and leukocyte epigenome-wide DNA Methylation in older men: the Normative Aging Study. *Environmental Health*, 22(1), 54. doi:10.1186/s12940-023-01007-5

Air Quality Data for Health-Related Applications (Annual Mean PM_{2.5} Components (EC, NH₄, NO₃, OC, SO₄) 50m Urban and 1km Non-Urban Area Grids for Contiguous U.S., v1)

Air Quality Data for Health-Related Applications (Annual Mean PM_{2.5} Components Trace Elements (TEs) 50m Urban and 1km Non-Urban Area Grids for Contiguous U.S., v1)

Wang, Y., Liu, P., Schwartz, J., Castro, E., Wang, W., Chang, H., . . . Shi, L. (2023). Disparities in ambient nitrogen dioxide pollution in the United States. *Proceedings of the National Academy of Sciences*, 120(16), e2208450120. doi:10.1073/pnas.2208450120

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1)

NASA REMOTE SENSING (MODIS)

Wei, Y., Danesh Yazdi, M., Ma, T., Castro, E., Liu, C. S., Qiu, X., . . . Schwartz, J. (2023). Additive effects of 10-year exposures to PM_{2.5} and NO₂ and primary cancer incidence in American older adults. *Environmental Epidemiology*, 7(4). doi:10.1097/EE9.0000000000000265

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/f8eh-5864
Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/0rvr-4538
Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5}, O₃, and NO₂ Concentrations at ZIP Codes for the Contiguous U.S., v1) - 10.7927/9yp5-hz11
Gridded Population of the World (GPW) v4.11 (population density)
NASA REMOTE SENSING (MODIS)

Wei, Y., Qiu, X., Yazdi, M. D., Shtein, A., Shi, L., Yang, J., . . . Schwartz, J. D. (2022). The impact of exposure measurement error on the estimated concentration–response relationship between long-term exposure to PM_{2.5} and mortality. *Environmental Health Perspectives*, 130(7), 077006. doi:10.1289/EHP10389

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/f8eh-5864
Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O₃ Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/a4mb-4t86
Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/0rvr-4538

Wen, J., & Burke, M. (2022). Lower test scores from wildfire smoke exposure. *Nature Sustainability*, 5, 947-955. doi:10.1038/s41893-022-00956-y

Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1) - 10.7927/0rvr-4538
REMOTE SENSING (GOES)

Zhang, H., Shi, L., Ebelt, S. T., D’Souza, R. R., Schwartz, J. D., Scovronick, N., & Chang, H. H. (2023). Short-term associations between ambient air pollution and emergency department visits for Alzheimer’s disease and related dementias. *Environmental Epidemiology*, 7(1), e237. doi:10.1097/EE9.0000000000000237

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1)
Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O₃ Concentrations for the Contiguous United States, 1-km Grids, v1)
Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)

Zheng, Y., McElrath, T., Cantonwine, D., & Hu, H. (2023). Longitudinal associations between ambient air pollution and angiogenic biomarkers among pregnant women in the LIFECODES study, 2006–2008. *Environmental Health Perspectives*, 131(8), 087005. doi:10.1289/ehp11909

Air Quality Data for Health-Related Applications (Daily and Annual NO₂ Concentrations for the Contiguous United States, 1-km Grids, v1)
Air Quality Data for Health-Related Applications (Daily 8-Hour Maximum and Annual O₃ Concentrations for the Contiguous United States, 1-km Grids, v1)
Air Quality Data for Health-Related Applications (Daily and Annual PM_{2.5} Concentrations for the Contiguous United States, 1-km Grids, v1)