articulate matter

Christian Smirnow

Corey Chao

Sonja Rogova

TRANSB-OUNDARY

Air pollution is responsible for 1 in 8 deaths globally 50,000 premature deaths annually (US) and 3.7 million deaths worldwide.

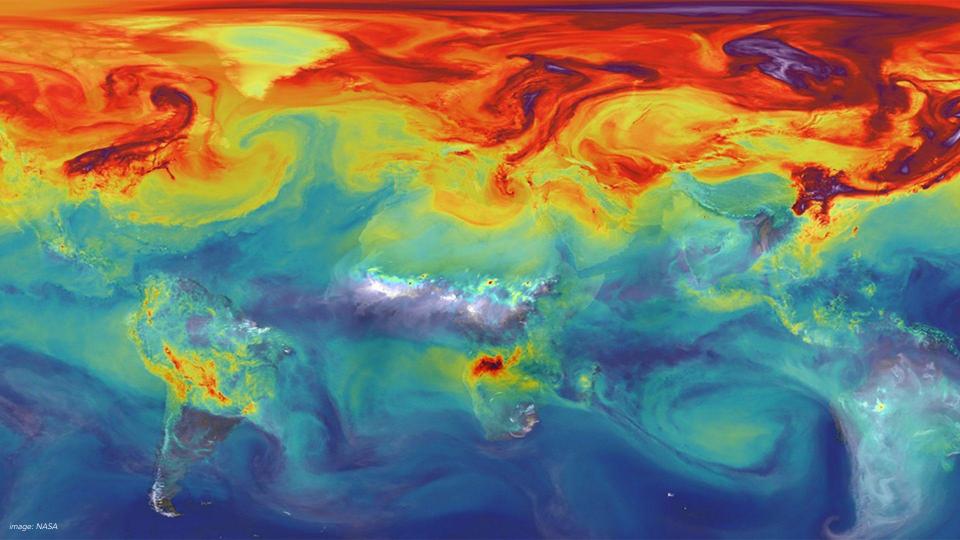
Healthy People 2010. Leading Health Indicators.

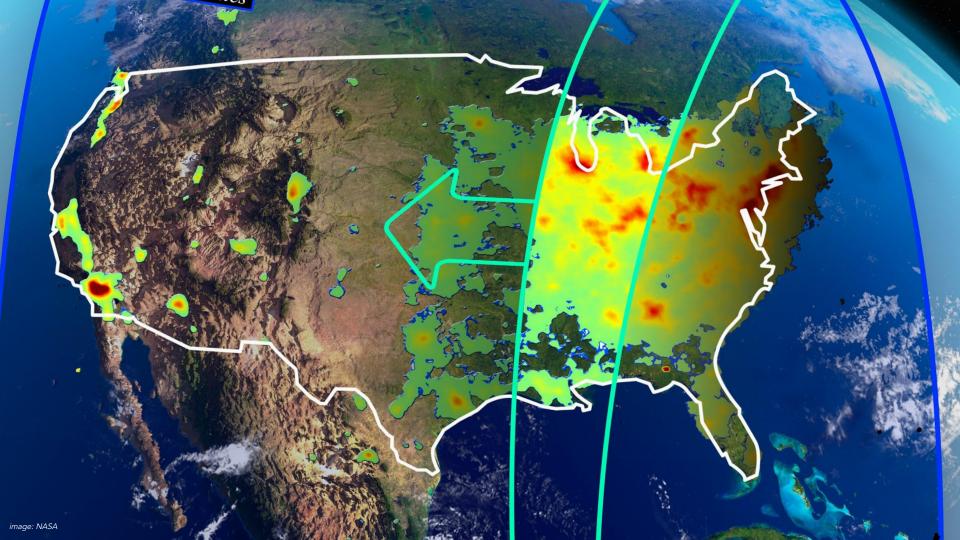
World Health Organization. UN Media Center. United Nations World Health Organization.

Organisation for Economic Co-operation and Development (OECD). The Cost of Air Pollution

Many communities think that large issues such as air quality are government issues and don't feel like they can have ownership about air quality.

Illah R. Nourbakhsh, Prof. of Robotics, Head of Robotics MS Program MSU, Director Carnegie Mellon CREATE Lab







Phenomena / Feelings / Scientific Expressions / **Related Actions** Existing **Bodily Reactions Products Symptoms** Language Idioms Rain high/low pressure umbrella weather hiding from rain Rain Boots wet Downpour soaked transboundary pollution nasty weather taking train to avoid Rain Coat Clouds chilly anthropogenic/Biogenic mother nature bad weather Rain Water Collector Umbrella (Rain/Sun) sore throat cold push mother nature's temper snowboarding humid trucks splashing water up Wellies Fog cold front swimming Hail arid hammered by storms hiking Gloves crisp Wind shiver swift sun kissed skirt alert Hat (Wool) cyclina whipping wind Gust arctic blast Hat (Straw) hazy Thunder atmoshperic indigestion sun-screen weather sunbathing scared Hurricane tranquil weather feeling under the weather Fan drowsy staying in Sun hot heat wave weather beaten windsurfina Sunglasses Snow frigid triple digit heat beach weather kite flying Sun Lotion aulf moisture bikini weather bleaching Ventilator frozen Dust sticky air you can wear drying Polarized Glasses moisture vacuum Puddle sizzlina inclement weather turning leaves Thermo Clothina Colored Leaves **Bathing Suit** storm system sun burn Solar Panels Erosion itchy skin spinning cyclone nebulous rain falling in buckets Wind Turbines boiling storms rolling in high and dry comfort precipitation Vitamin D deficiency rapid rise in temperature

Weather Taxonomy

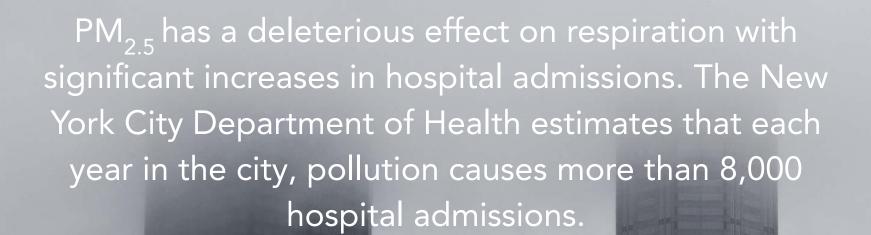
Phenomena / Symptoms	Feelings / Bodily Reactions	Scientific Language	Expressions / Idioms	Related Actions	Existing Products
Haze Smog Dust Acid Rain Clouds Pollen Fog Smoke Wildfire Traffic Industry Cigarettes Good/Bad Ozone	itchy skin sore throat irritated eyes headaches nausea cough dizziness dementia asthma shortness of breath flu symptoms	trapped pollution tropospheric and stratospheric smog/ozone fine particulate matter interhemispheric transport primary/secondary pollution severe asthma episodes aerosols carcinogen carbonmonoxide carbondioxide microparticle powders inner orbit airborne natural emissions photochemical smog trace gas near surface pollution to acidify precipitation	dirty clouds air is democratic clouds of death no vigorous exercise heavy fog hazardous air pollution blows in trapped pollution high ozone days rain cleans air curtain of polluted air chemical mix elevated bowl	traffic restrictions manufacturing - strongholds building standards citizen engagement citizen science gardens data generation of air quality	face masks scarves air-purifiers filters

Pollution Taxonomy

melancho₃

(ˌmɛ • lən • khoʊ • 🖯 ri)





Tsai, Shang-Shyue, Chang, Chih-Ching and Yang, Chun-Yuh. Fine Particulate Air Pollution and Hospital Admissions for Chronic Obstructive Pulmonary Disease: A Case-Crossover Study in Taipei.

Kheirbek, I, et al. Air Pollution and the Health of New Yorkers: The Impact of Fine Particles and Ozone.

surance icle for Healthy Breathing Checklist ew words.





BETTER BREATHER PROGRAM

LUNGSQUASH

Ing skwas)

noun



