

Earth Recycles

Reason Rising 2020 #6

Myth: The atmosphere is being loaded with pollution that is destroying the Earth.

Truth: Earth recycles those pollutants into fertilizer.

People today are imagining that the atmosphere is loading with pollution. This is not true. Professors at MIT demonstrate that electrically charged rain attracts pollutants which falls to the ground.

<http://news.mit.edu/2015/rain-drops-attract-aerosols-clean-air-0828>



We know that Earth has greened 14% over the last 30 years, largely due to Carbon Dioxide increases because NASA satellite data proves it.

<https://www.nasa.gov/feature/goddard/2016/carbon-dioxide-fertilization-greening-earth>

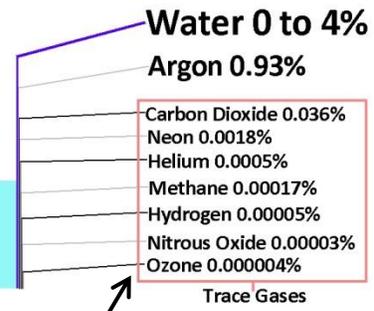
We know the atmosphere is not loading with pollution because decades of measuring prove consistent levels, with slight variances, of atmospheric gases:

Atmospheric Gases

We call this air

Nitrogen 78.08%

Oxygen 20.95%



We also know that microbes in our world eat those gases and convert them into what can be assumed to be fertilizer, or food for other microbes that then converts to fertilizer. Some of these interactions are not yet fully demonstrated but we have many that are directly shown to consume gases from the atmosphere.

These gases, along with smoke and particulate matter are what we consider as pollution (except CO₂ is not pollution). There are also a plethora of smaller percentages of additional gases & chemical compounds, natural and man-made.

The fact that these gas levels largely stay at a constant demonstrates that the atmosphere is not being pollution loaded.



**CO₂ and fertilizer are greening Earth.
There is no climate emergency!**

As these microbes consume pollutants the atmosphere obviously returns to a balance that supports life very well. This is evidenced by the Earth greening.

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Pollution and Microbes that eat chemicals + gases

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The amazing microbes that recycle in the Earth number ~one Trillion species.

Methane-Eating Microbes Produce Food for Farmed Animals

<https://www.seeker.com/methane-eating-microbes-produce-food-for-farmed-animals-2117788033.html>

Methylococcus capsulatus bacteria, that eat methane - a gas normally associated with landfills, cow burps and manure.

A microbe that eats nitrous oxide

<https://www.zmescience.com/science/news-science/bacteria-eats-greenhouse-gas-04543/>

Our planet is well adapted to break down what we consider harmful chemicals and gases and recycle them. The estimated one trillion species of microbes on Earth are vastly more resilient and capable than you can imagine – literally. (see a short list of beneficial microbes on the next page).

Microbes that eat very toxic gases hydrogen Sulfide and Sulfur dioxide emitted from volcanic emissions and other sources

https://en.wikipedia.org/wiki/Sulfate-reducing_microorganisms

Thiobacillus, widespread in marine and terrestrial habitats, oxidizes sulfur, producing sulfates useful to plants; in deep ground deposits it generates [sulfuric acid](#), which dissolves metals in mines but also corrodes concrete and steel. *Desulfovibrio desulficans* reduces sulfates in waterlogged soils and sewage to hydrogen sulfide, a gas with the rotten egg odour so common to such places. *Thiothrix*, common in sulfur springs and in sewage, and *Sulfolobus*, confined to sulfur-rich hot springs, transform hydrogen sulfide to elemental sulfur. Many species in the families Chromatiaceae (purple sulfur bacteria) and Chlorobiaceae (green sulfur bacteria) utilize energy from light in an oxygen-free [environment](#) to transform sulfur and its compounds to sulfates.

Princeton professor discover microbe that eats cancer-causing chemical PFAS

<http://newjersey.news12.com/story/41133380/princeton-professor-discover-microbe-that-eats-cancercausing-chemicals>

Microbe that Eats Arsenic Found

<https://www.livescience.com/9046-microbe-eats-arsenic.html>

Arsenic may be deadly to us, but now a microbe that can live and grow entirely off the poison has been discovered. These findings not only show just how tough life can be on Earth, but expand the search for where life might be possible on alien worlds. Arsenic is normally highly toxic, because it disrupts key metabolic pathways such as those linked with respiration in the body. Still, chemically arsenic behaves quite similarly to phosphorus, one of the six key elements that help make up life on Earth, along with carbon, oxygen, hydrogen, nitrogen and sulfur.

Microbes that eat chemicals + gases

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A Microbe that eats formaldehyde

<https://news.wisc.edu/microbe-eats-formaldehyde/>

A shocking diet: Researchers describe microbe that 'eats' electricity

<https://www.sciencedaily.com/releases/2014/03/140310144000.htm>

Newly discovered bacteria can eat plastic bottles

<https://phys.org/news/2016-03-newly-bacteria-plastic-bottles.html>

Note: some articles concerning this microbe (and others) claim that scientists invented a microbe. No they did not. They cannot create life but they want you to think that. Next they will try and bastardize this discovery and monetize it. What is actually needed is determining the conditions best suited to breed these microbes for their use in consuming plastics.

Microbe hunters discover iron-munching microbe

<https://phys.org/news/2016-10-microbe-hunters-iron-munching.html>

UC researcher uses microbes to treat smog-causing pollutants

<https://www.uc.edu/news/articles/2019/03/n2071959.html>

Note: The more microbial our approach to pollution control the more “human and earth friendly” our environment becomes.

Compost pile microbes

<https://www.compostheaven.com/compost.html>

Note: Composting is one of my favorite subjects. I have built many compost heaps and watched my temperature gauge register 140F. These microbes are so aggressive that if you compost wood chips with enough green material (nitrogen) that they sometimes spontaneously combust. Don't think of natural microbes as being weak in the face of industrial chemicals/pollutions. Given time and the right conditions it is actually the other way around.

7 Must-Eat Fermented Foods for a Healthy Gut – beneficial microbes

<http://www.eatingwell.com/article/281916/7-must-eat-fermented-foods-for-a-healthy-gut/>

There are 12 trillion microbes living inside humans. We are functionally one. If you want to be healthy you need a broad range of healthy microbes thriving in your gut.

This is not to say that you have no pollution where you live. We should not live near sources of pollution, such as a volcano, but pollution is local, not necessarily global.

More Evidence that life is thriving on planet Earth

Polar bear populations are now known to be increasing: <https://polarbears.com/about-2/>

It is **self-evident** that if polar bear populations are increasing that the animals they eat are healthy and plentiful. All of those fertilizers are in that food chain.



The atmosphere is not just accumulating pollution! Earth is recycling