

## *Soil, Carbon, Plants, Climate and Water: The Rest of the Story*

**Soils:** Jones, C. (2018). Light farming: restoring carbon, organic nitrogen and biodiversity to agricultural soils. [http://amazingcarbon.com/JONES-LightFarmingFINAL\(2018\).pdf](http://amazingcarbon.com/JONES-LightFarmingFINAL(2018).pdf)

Machmuller, M.B., Kramer, M.G., Cyle, T.K., Hill, N., Hancock, D., and Thompson, A. (2015). Emerging land use practices rapidly increase soil organic matter. Nature Comms. <https://www.nature.com/articles/ncomms7995>

### ***Fungi/Plant Communication:***

Macfarlane, R. (2016): *The secrets of the wood wide web.*

<https://www.newyorker.com/tech/annals-of-technology/the-secrets-of-the-wood-wide-web>

Simard, S. (2016). *How trees talk to each other TEDSummit.*

[https://www.ted.com/talks/suzanne\\_simard\\_how\\_trees\\_talk\\_to\\_each\\_other/transcript?language=en](https://www.ted.com/talks/suzanne_simard_how_trees_talk_to_each_other/transcript?language=en)

*Pashon Murray of Detroit narrates this story of soil and how it could save our planet & reverse climate change. Learn more at* <https://kisstheground.com/>.

<https://www.youtube.com/watch?v=npu6GBbB-Oc>

### ***Soils/Water/Climate:***

Newport, A. (2017). *More soil organic matter makes more rain. BeefProducer*

[https://www.beefproducer.com/management/more-soil-organic-matter-makes-more-rain?NL=FP-002&Issue=FP-002\\_20170119\\_FP-](https://www.beefproducer.com/management/more-soil-organic-matter-makes-more-rain?NL=FP-002&Issue=FP-002_20170119_FP-)

Pearce, F. (2018). *Rivers in the sky: how deforestation is affecting global water cycles.*

YaleEnvironment360. <https://e360.yale.edu/features/how-deforestation-affecting-global-water-cycles-climate-change>

*The Largest River On Earth Is In The Sky:* <https://www.youtube.com/watch?v=VGurBZ0b6nI>

Judith Schwartz: *“There’s another story to tell about climate change. And it starts with water.”*

<https://worldpermacultureassociation.com/theres-another-story-to-tell-about-climate-change-and-it-starts-with-water/?fbclid=IwAR0-beBOefqMtKODOqOEYMP3-Oro3aWTrAUFfPZGwBDcLCd0RjLM5GtHjQ>

**Walter Jehne: Climate Solutions for a Blue Planet:**

<https://www.youtube.com/watch?v=DON9t-g2J-0&t=247s>

<https://www.sciencedirect.com/science/article/abs/pii/S0021850218302519?via%3Dihub=>

From <https://www.facebook.com/rainforclimate/photos/2930409190531011> “

[Journal of Aerosol Science](#)

[Volume 130, April 2019, Pages 45-54](#)

*The current state of aerosol-radiation interactions: A mini review*

Author links open overlay panel [Jagdish Chandra Kuniyal<sup>a</sup>](#)

[Raj Paul Guleria<sup>b</sup>](#)

*Water and weather 15 minutes:* <https://www.youtube.com/watch?v=Vik4vUN3SPI>

*The Largest River On Earth Is In The Sky*

<https://www.youtube.com/watch?v=VGurBZ0b6nI>

*Jared Diamond: Agriculture- the Worst Mistake in Human History?*

<http://discovermagazine.com/1987/may/02-the-worst-mistake-in-the-history-of-the-human-race>

### **More Resources- Books:**

*Burn: Using Fire to Cool the Earth*

[Albert Bates and Kathleen Draper](#)

[Nature & Environment; Business & Economy Community Resilience](#)

*How We Can Harness Carbon to Help Solve the Climate Crisis*

<https://www.chelseagreen.com/product/burn/>

*The Biochar Revolution: Transforming Agriculture & Environment*

*A friendly, informative, inspiring reference guide, this book has contributions from 18 biochar*

*experts and authors. [https://www.amazon.com/Biochar-Revolution-Transforming-Agriculture-](https://www.amazon.com/Biochar-Revolution-Transforming-Agriculture-Environment/dp/1921630418/ref=sr_1_1?ie=UTF8&qid=1534689227&sr=8-1&keywords=the+biochar+revolution)*

*[Environment/dp/1921630418/ref=sr\\_1\\_1?ie=UTF8&qid=1534689227&sr=8-](https://www.amazon.com/Biochar-Revolution-Transforming-Agriculture-Environment/dp/1921630418/ref=sr_1_1?ie=UTF8&qid=1534689227&sr=8-1&keywords=the+biochar+revolution)*

*[1&keywords=the+biochar+revolution](https://www.amazon.com/Biochar-Revolution-Transforming-Agriculture-Environment/dp/1921630418/ref=sr_1_1?ie=UTF8&qid=1534689227&sr=8-1&keywords=the+biochar+revolution)*

*[The Biochar Solution- Carbon Farming and Climate Change by Albert Bates. New Society Press, 2010](#)*

*Terra Preta: How the World's Most Fertile Soil Can Help Reverse Climate Change and Reduce World Hunger Paperback – Ute Scheub, Haiko Pieplow, Hans-Peter Schmidt, Kathleen Draper,*

*Tim Flannery (Foreword) <https://www.nhbs.com/terra-pret-a-book>*

Biochar: A resource for farmers and gardeners: <https://www.biochar-journal.org/en/home>

Stockholm Biochar Project, a Mayors Challenge Winner, Biochar for district heat and healthy street trees:

<https://www.youtube.com/watch?v=MojlKaAKeh8&t=10s>

A comprehensive and thorough review of the many great uses for Biochar: <http://www.biochar-journal.org/en/ct/2-The-55-uses-of-biochar>

A wider view with many more environmental and entrepreneurial possibilities:

<https://www.biochar-journal.org/en/ct/85-The-Biochar-Displacement-Strategy>

Biochar use in European farming:

<https://www.biochar-journal.org/en/ct/9-The-use-of-biochar-in-cattle-farming>

Biochar for rural water filtration: [https://biochar-international.org/water\\_filtration/](https://biochar-international.org/water_filtration/)

Biochar and Forest Restoration:

[http://greenyourhead.typepad.com/files/biochar\\_for\\_forest\\_restoration\\_wba.pdf](http://greenyourhead.typepad.com/files/biochar_for_forest_restoration_wba.pdf)

This video takes us through an entire run of biochar production, using the Kon-Tiki kiln.

<https://www.youtube.com/watch?v=U1aOZw08fSE>

Simple, portable Trough Biochar making in Thailand: <http://warmheartworldwide.org/biochar-research-environment/>

Good, basic open burn/pit biochar outline/video:

<https://pacificbiochar.com/how-to-make-biochar-with-only-a-match/>

Biochar making small cookstove: [https://www.youtube.com/watch?v=B\\_EgpRvdCxE](https://www.youtube.com/watch?v=B_EgpRvdCxE)

Making biochar at home with barrels: <https://www.youtube.com/watch?v=SaixJyg5D0c>

<https://bit.ly/3GON0W3>

Natural plasters- Wine: <https://www.ithaka-journal.net/pflanzenkohle-als-baustoff-fur-optimales-raumklima?lang=en>

***Remnants of Sprawling Ancient Cities Are Found in the Amazon***  
***Archaeologists, relying on laser technology and decades of research, mapped a cluster of ancient cities in eastern Ecuador. Their findings add to evidence of dense settlements in Amazonia.***

[https://www.nytimes.com/2024/01/23/science/ecuador-amazon-cities-discovery.html?unlocked\\_article\\_code=1.P00.-L0n.IVkBvAa8AOA&smid=nytcore-ios-share&referringSource=articleShare](https://www.nytimes.com/2024/01/23/science/ecuador-amazon-cities-discovery.html?unlocked_article_code=1.P00.-L0n.IVkBvAa8AOA&smid=nytcore-ios-share&referringSource=articleShare)

**H2O and Climate** NASA: "This study confirms that what was predicted by the models is really happening in the atmosphere," said Eric Fetzer, an atmospheric scientist who works with AIRS data at NASA's Jet Propulsion Laboratory in Pasadena, Calif. "Water vapor is the big player in the atmosphere as far as climate is concerned."

[https://www.nasa.gov/topics/earth/features/vapor\\_warming.html](https://www.nasa.gov/topics/earth/features/vapor_warming.html)

<https://www.resilience.org/stories/2013-03-13/when-agriculture-stops-working-ten-recommendations-for-growing-food-in-the-anthropocene/>

**Maximizing Photosynthesis and Root Exudates through Regenerative Agriculture to Increase Soil Organic Carbon to Mitigate Climate Change**

Volume 8, Issue 1, February 2023 | PP. 1-26 | [PDF \(289 K\)](#) | Pub. Date: February 3, 2023

DOI: [10.54647/agriculture210317](https://doi.org/10.54647/agriculture210317) 10 Downloads 450 Views

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<https://www.scirea.org/journal/PaperInformation?JournalID=21000&PaperID=8630>

**Jimi!!!!**

**The Biotic Pump: How Forests Create Rain**

<https://www.youtube.com/watch?v=kKL40aBg-7E&t=2s>

+ **How Plants Cool the Planet:** <https://www.youtube.com/watch?v=B-oJyInmTTo>

<https://phys.org/news/2023-06-fungi-carbon-fossil-fuel-emissions.html>

**New Big Pic Soil Carbon+++ Research:** <https://8point9.com/new-paradigm-soil-science-shows-enormous-potential-for-soil-carbon-storage/>

## **The Biotic Climate and the Soil Sponge**

**How Life Regulates Temperature, Weather, and the Climate through the Water Cycle**

[Didi Pershouse](#) Nov 17, 2023

<https://didipershouse.substack.com/p/the-biotic-climate-and-the-soil-sponge>

**More:**

**Articles on the John Hershey trees in Downingtown**

- **Here a most important piece on the Hershey trees and why they matter:**  
<https://www.phillymag.com/news/2018/07/07/downingtwn-food-forest-urban-farming/>
- **And this one with more photos, tree info and links to historical documents:**  
<https://www.shelterwoodforestfarm.com/blog/2018/10/17/exploring-americas-oldest-food-forest>
- **Distillations Magazine- Forests of the Future Modern agricultural practices are unsustainable. Is tree farming the answer? by [Kate Morgan](#)**  
<https://sciencehistory.org/stories/magazine/forests-of-the-future/>

**Podcasts**

- **Wild Plant Culture Podcast:** <https://wildplantculture.com/podcast/2019/12/18/episode-006-dale-hendricks-on-rewilding-the-landscape>
- **Plant A Trillion trees Podcast:** <https://anchor.fm/plantatrilliontrees/episodes/Episode-23---Dale-Hendricks-is-the-owner-of-Green-Light-Plants--LLC-eq5ree>
- **William Padilla-Brown 8 minute video from Sept '22:**  
<https://www.youtube.com/watch?v=AC4TDfEoOw4>

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