HOLDING WATER in your LANDSCAPE

THE POND EFFECT

WATER ENGINEERING FOR AND WITH NATURE

theflowpartnership

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What are the two BIGGEST problems being faced by the planet today? (lets just call it one problem– as every other problem is a subset of it)

CLIMATE CHANGE – our Carbon and Water Cycles are out of whack and mankind seems very responsible for it

Carbon: our emissions today are upwards of 40 BILLION tonnes

Water: 600 million tonnes of fresh water is now lost from our water cycle annually

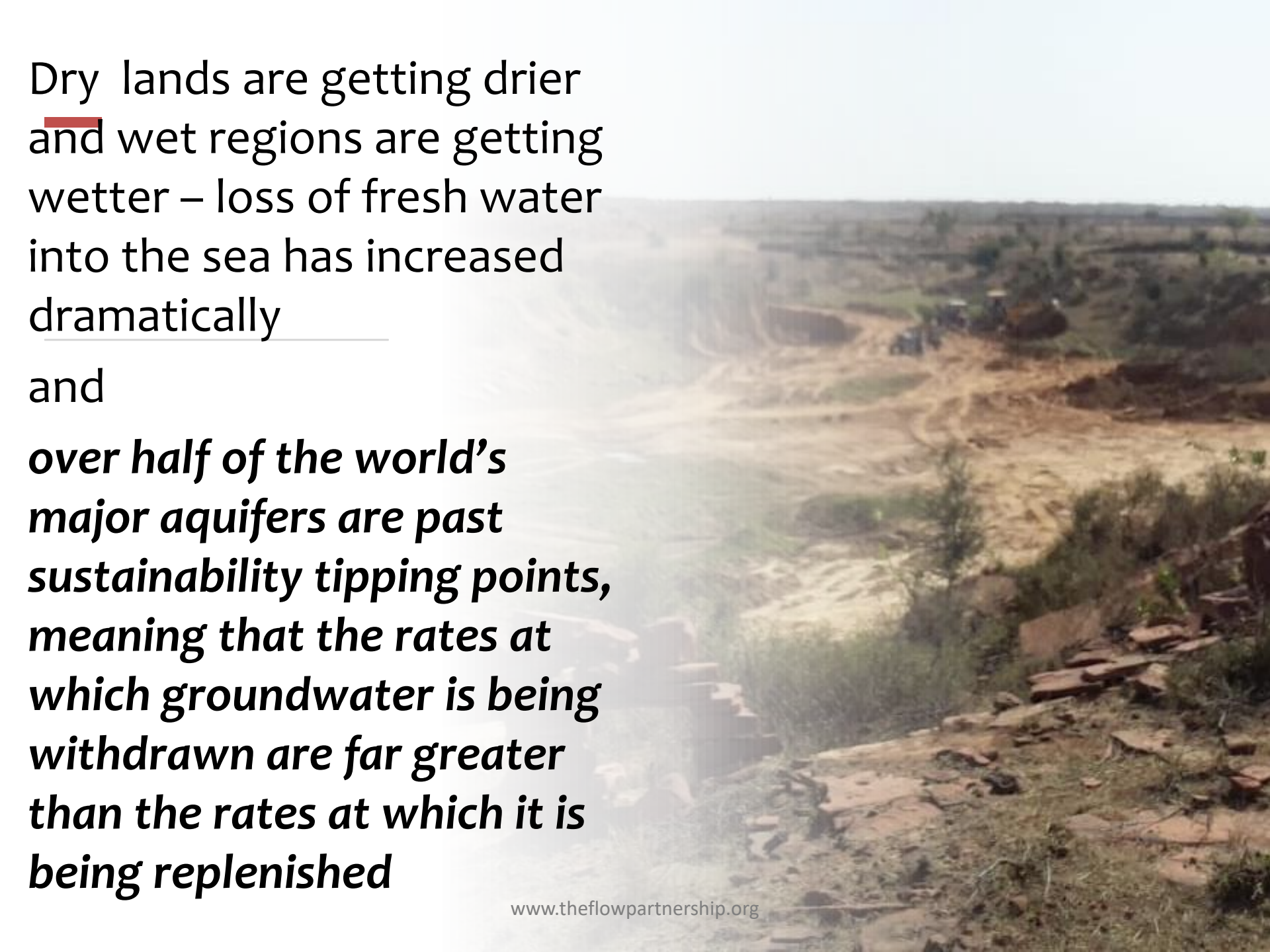
Modern agriculture has been framed on production as if the resources came free ***ESPECIALLY THE AVAILABILITY OF WATER***.

Now aquifers and wells across the planet are running dry at an astonishing rate..

Dry lands are getting drier and wet regions are getting wetter – loss of fresh water into the sea has increased dramatically

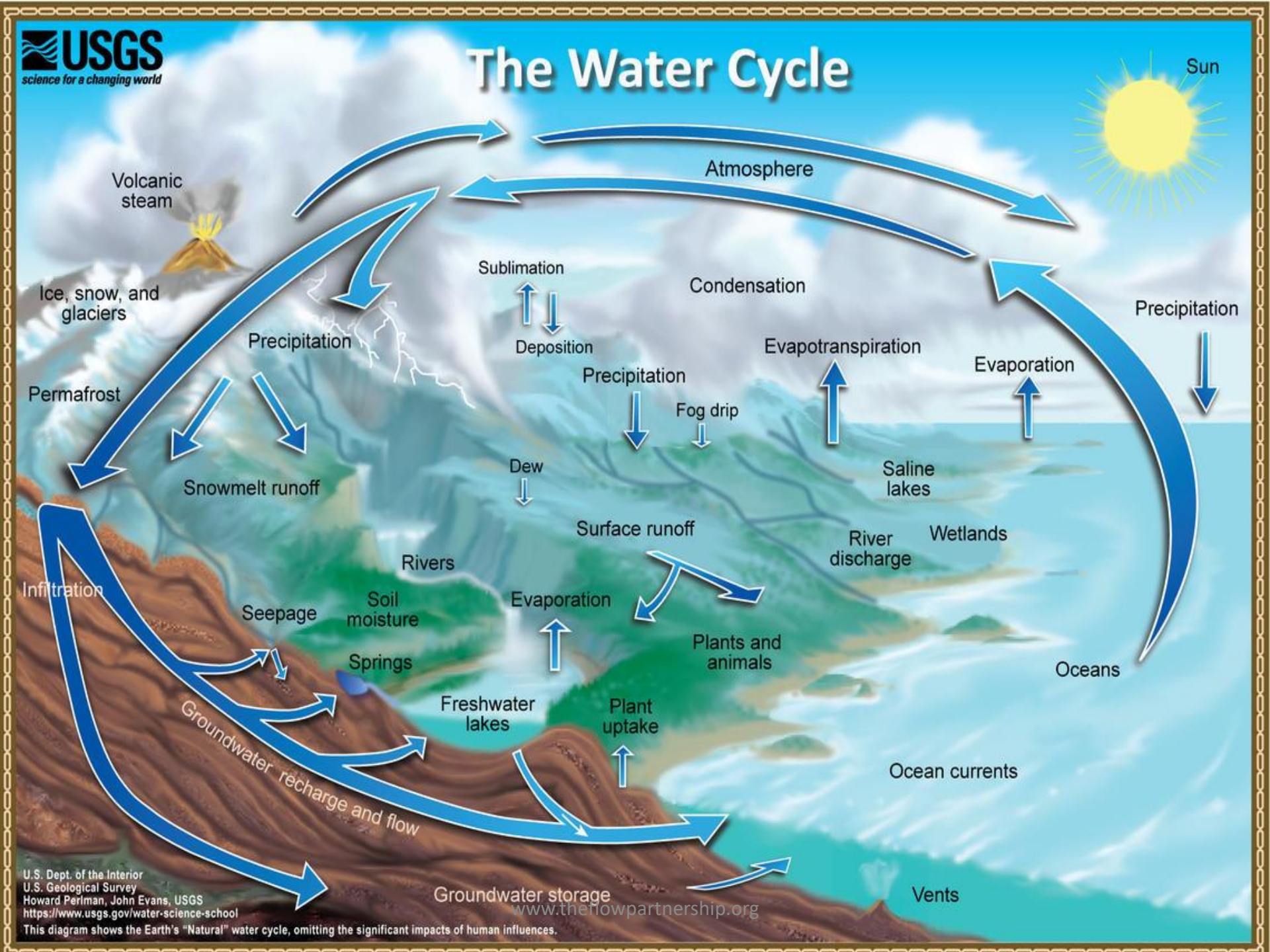
and

over half of the world's major aquifers are past sustainability tipping points, meaning that the rates at which groundwater is being withdrawn are far greater than the rates at which it is being replenished



Do those figures mean anything at our ground level?

What If I was to say there is a solution to take care of both these problems at our level, on the ground, in our communities, in the way we design our systems of agriculture?



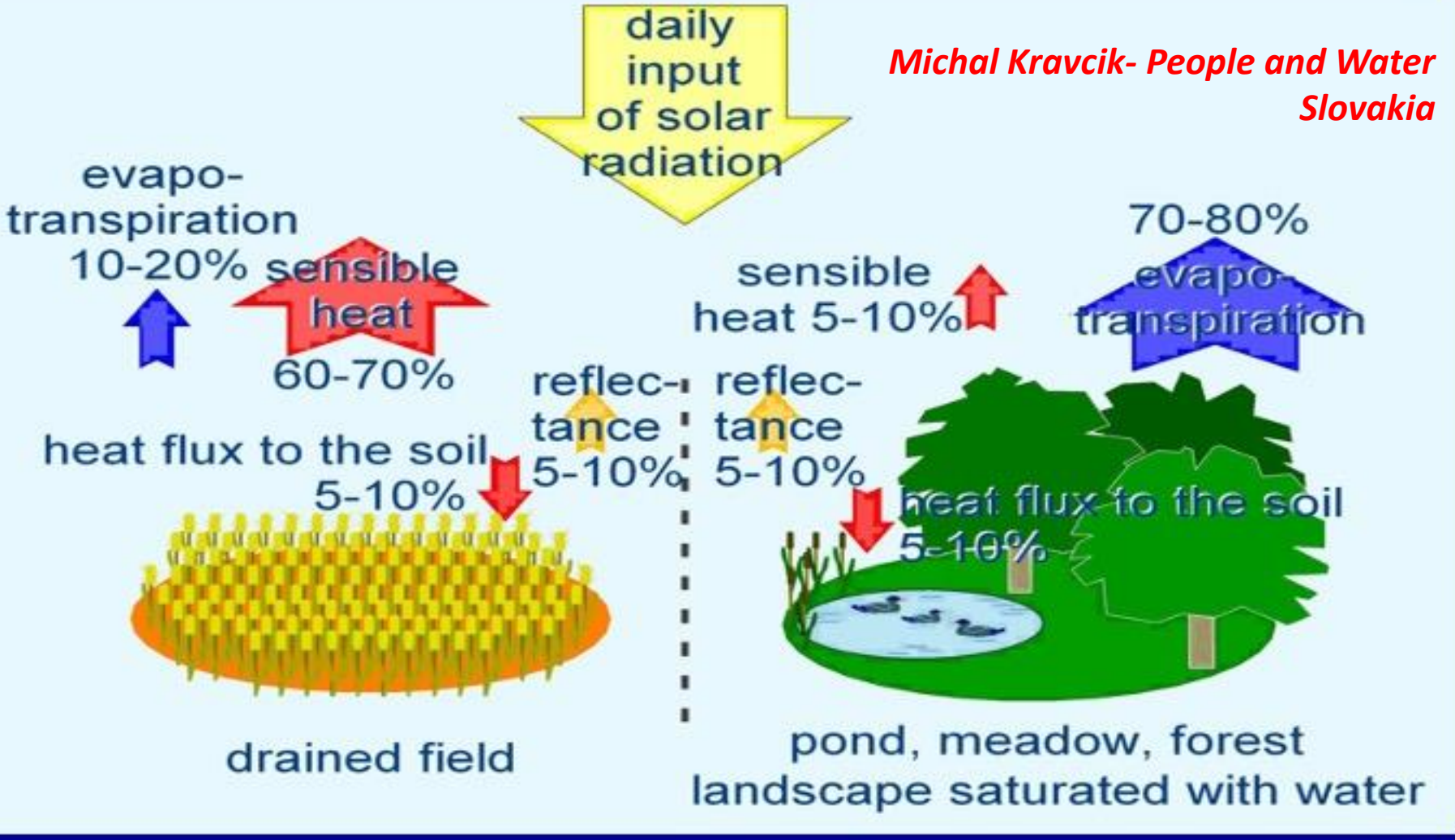
Soil, Water, and Trees

the intersection between soil, water, and trees in managing floods and droughts

- Many gardeners clearly understand issues relating to fertility and nutrient cycles in a forest garden; but one common element is often overlooked: water.

- The initial design stage of a forest garden is very important

THE DISTRIBUTION OF SOLAR ENERGY ON LAND WITH AND WITHOUT WATER



Michal Kravcik- People and Water Slovakia

PLANET FRIENDLY AGRICULTURAL SYSTEMS

Agroforestry

Permaculture

Forest Gardening

Market Gardens

Gardens

Rain Gardens

Etc etc

REGENERATIVE AGRICULTURE…

The role of Ponds in Regenerative (Agri) culture

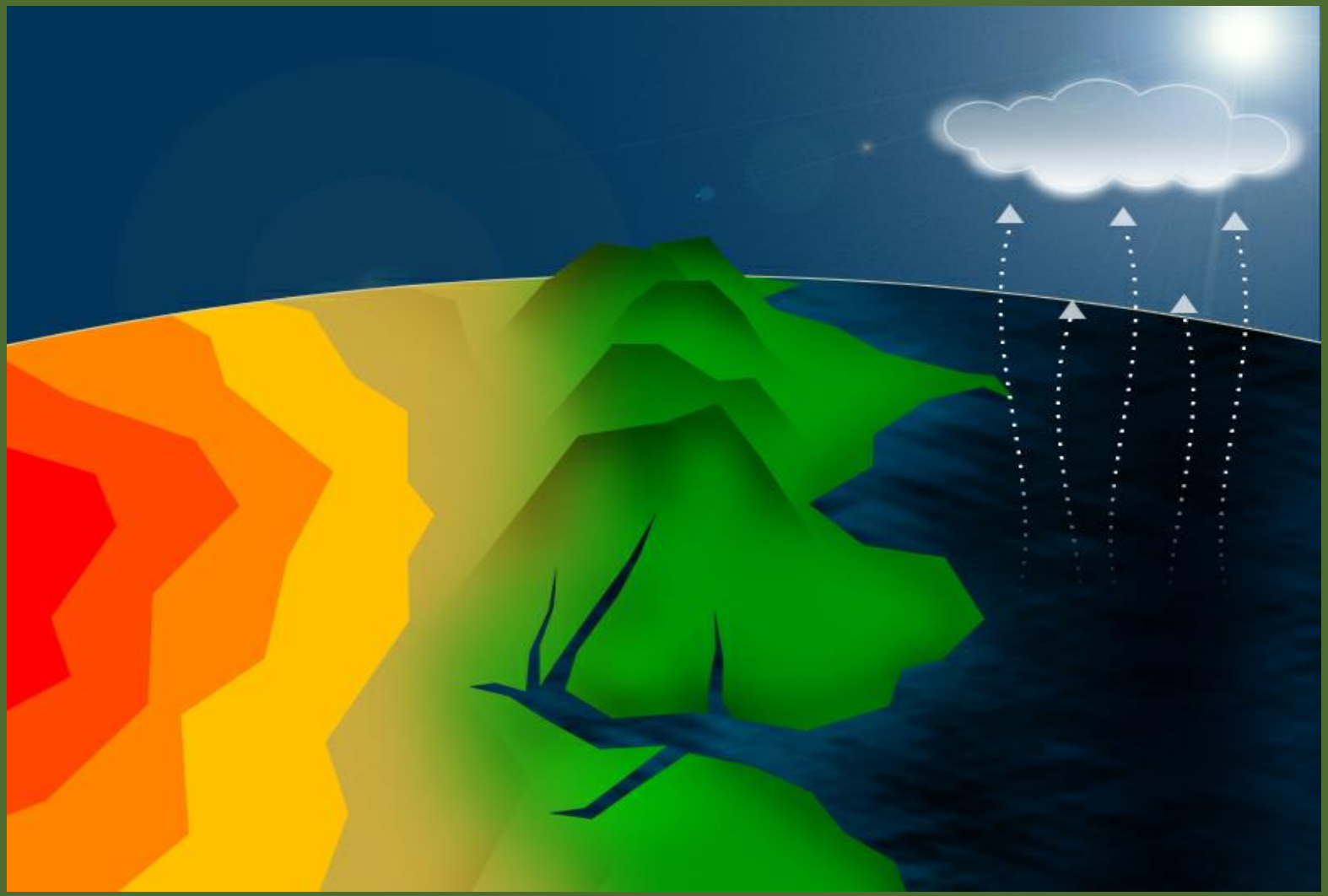
Ponds (or "small water bodies") benefit humans by slowing down water run-off that can cause flooding and mopping up excess nutrients that enrich and enliven a landscape.

Sprinkled liberally across a landscape they help stop floods and ease droughts..

THE ROLE OF PONDS IN YOUR LANDSCAPE

Ponds are the most common and widespread habitat for all plants and animals across the continents and islands of Earth, from Antarctica to the tropics.

THE importance OF PONDS IN the water cycle



The importance of ponds in the carbon cycle…

…. and in fighting climate change is becoming apparent. Looking at the rate of carbon uptake in ponds .. we may well have discovered an important new natural way of trapping carbon.

POND CARBON STORAGE

- Globally, ponds may also be important in influencing atmospheric carbon by storing and releasing it, given the intensity of geochemical processes and the sheer number of ponds around the world. *However, just how fast ponds can bury carbon is poorly understood.*

- ***Retention of carbon in small ponds is 20–30 times higher than rates estimated for many other habitat types, such as woodlands or grasslands, and higher than those of other natural wetlands.***

Build Ponds !

With your community

Rajasthan, India


www.theflowpartnership.org

POST POND CONSTRUCTION

WITHIN 6 MONTHS!!!!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ZIMBABWE, AFRICA

A recently built freshwater pond in Chaseyama in the low altitude/low rainfall part of Chimanimani District

SLOVAKIA

RESTORATION OF WATER SOURCES IN URBAN ZONE KOSICE

Michal Kravcik- People and Water Slovakia

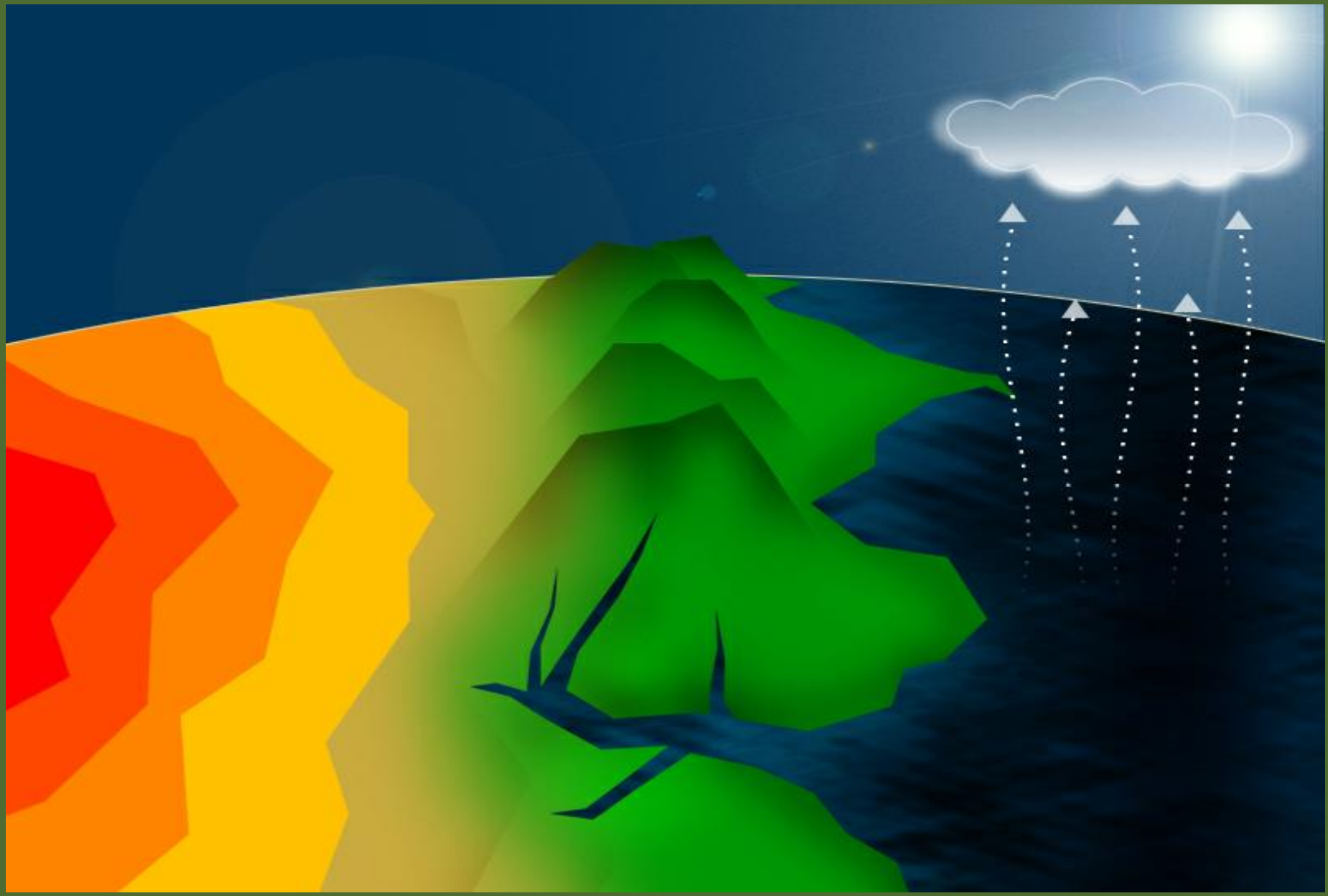
OFFLINE PONDS, UK

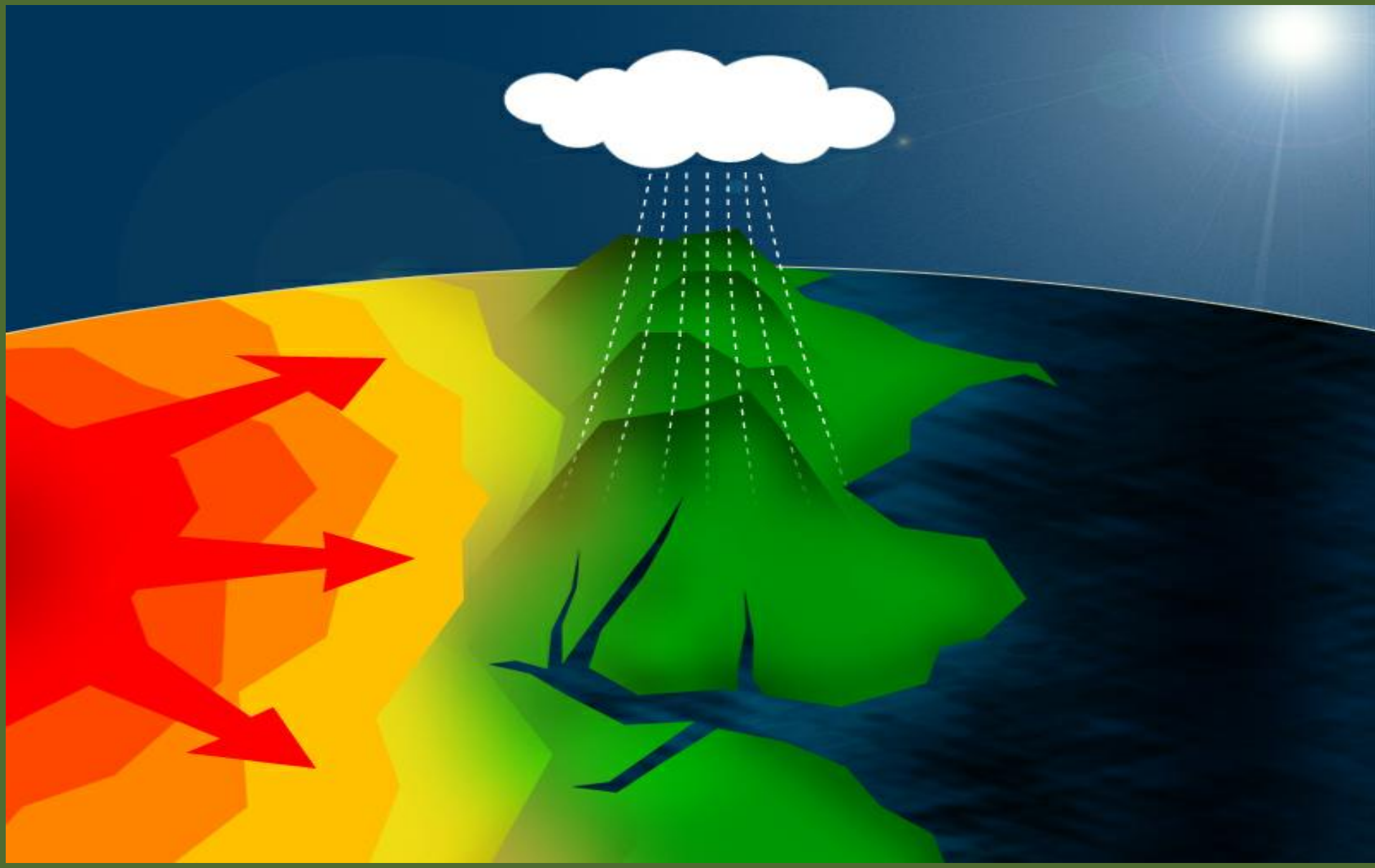
"One of the main reasons why the Belford scheme has been such a success is because we've had the support of the community and local landowners."

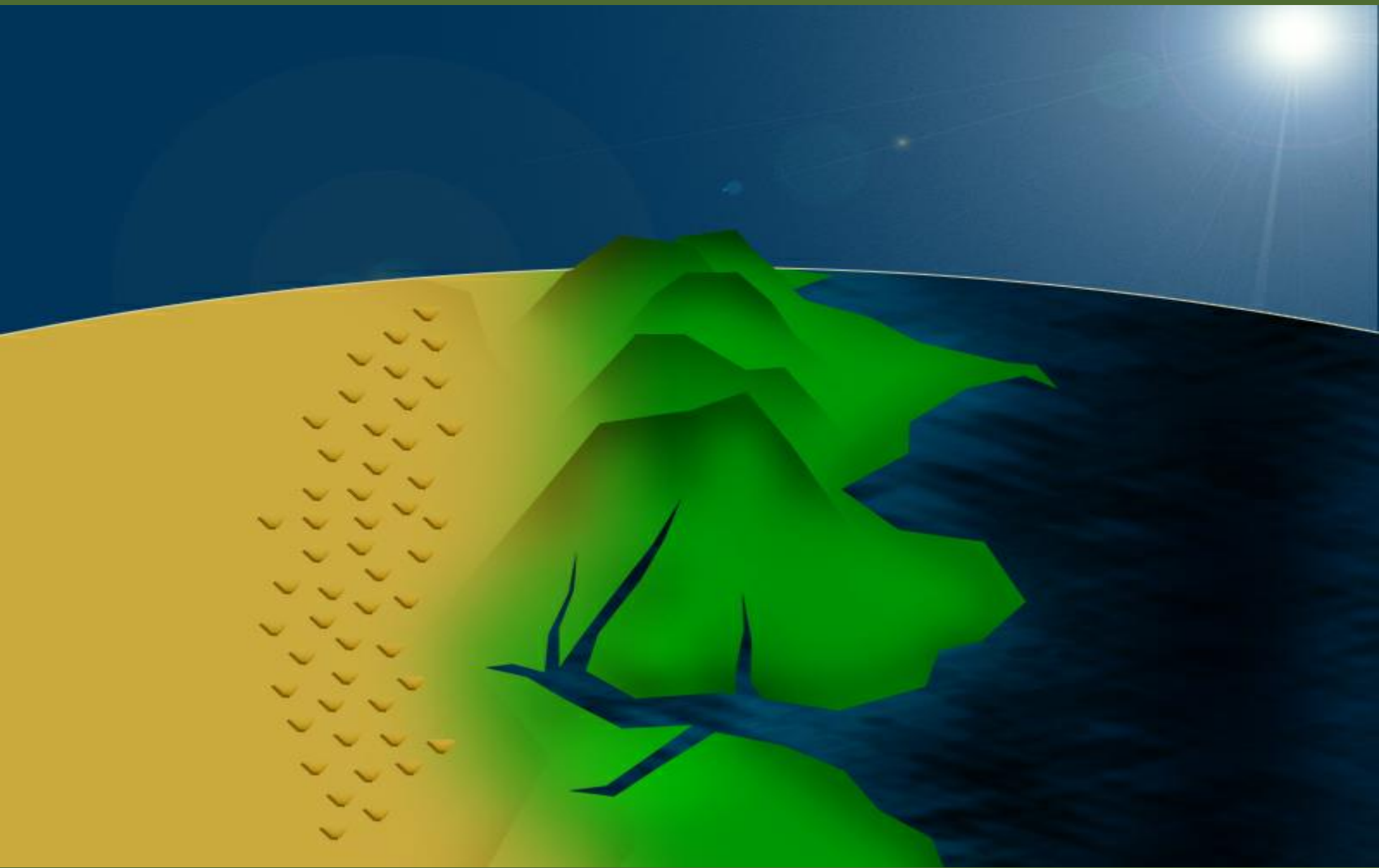
Dr Paul Quinn, Newcastle University.

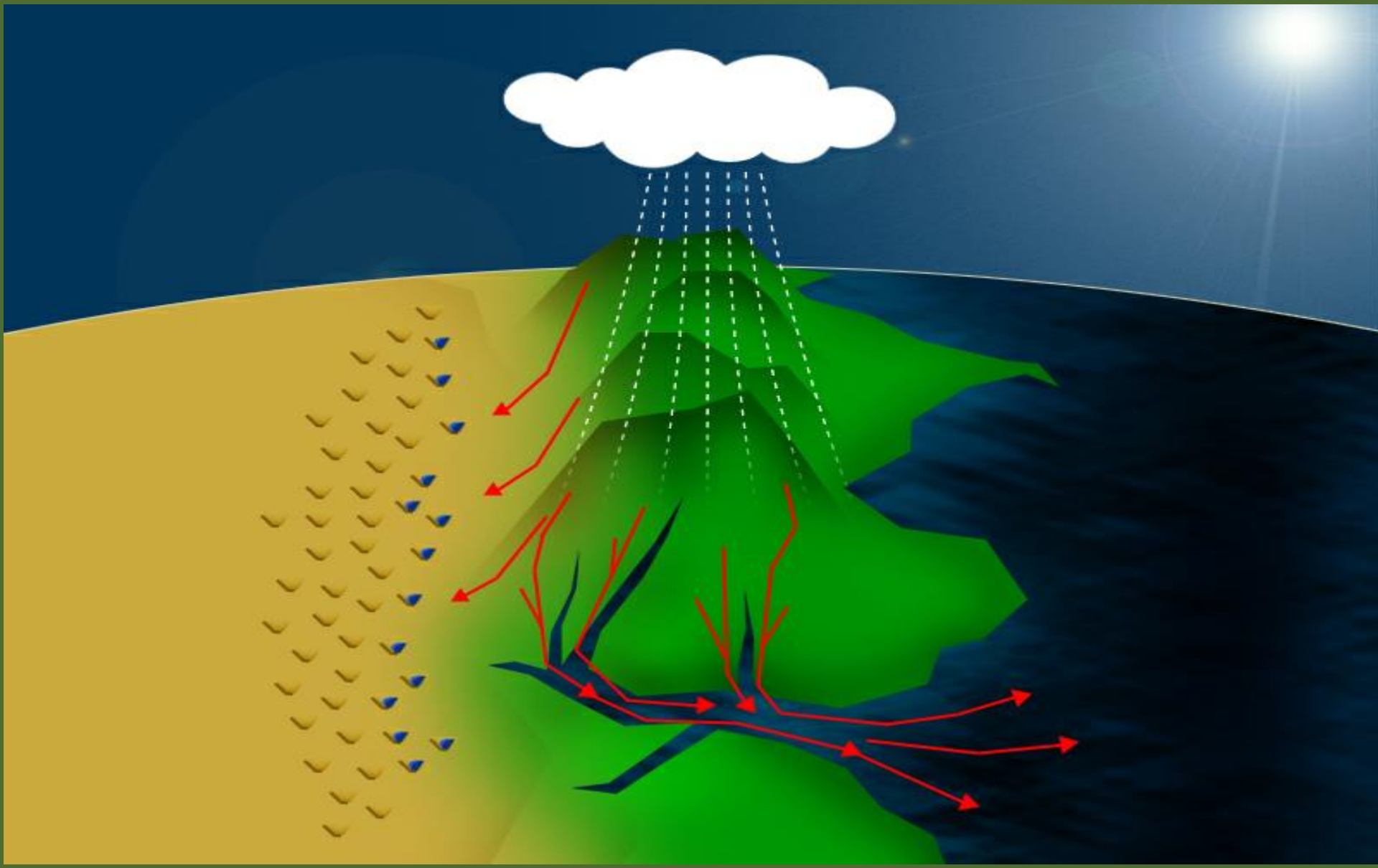
RESTORING THE SMALL WATER CYCLE

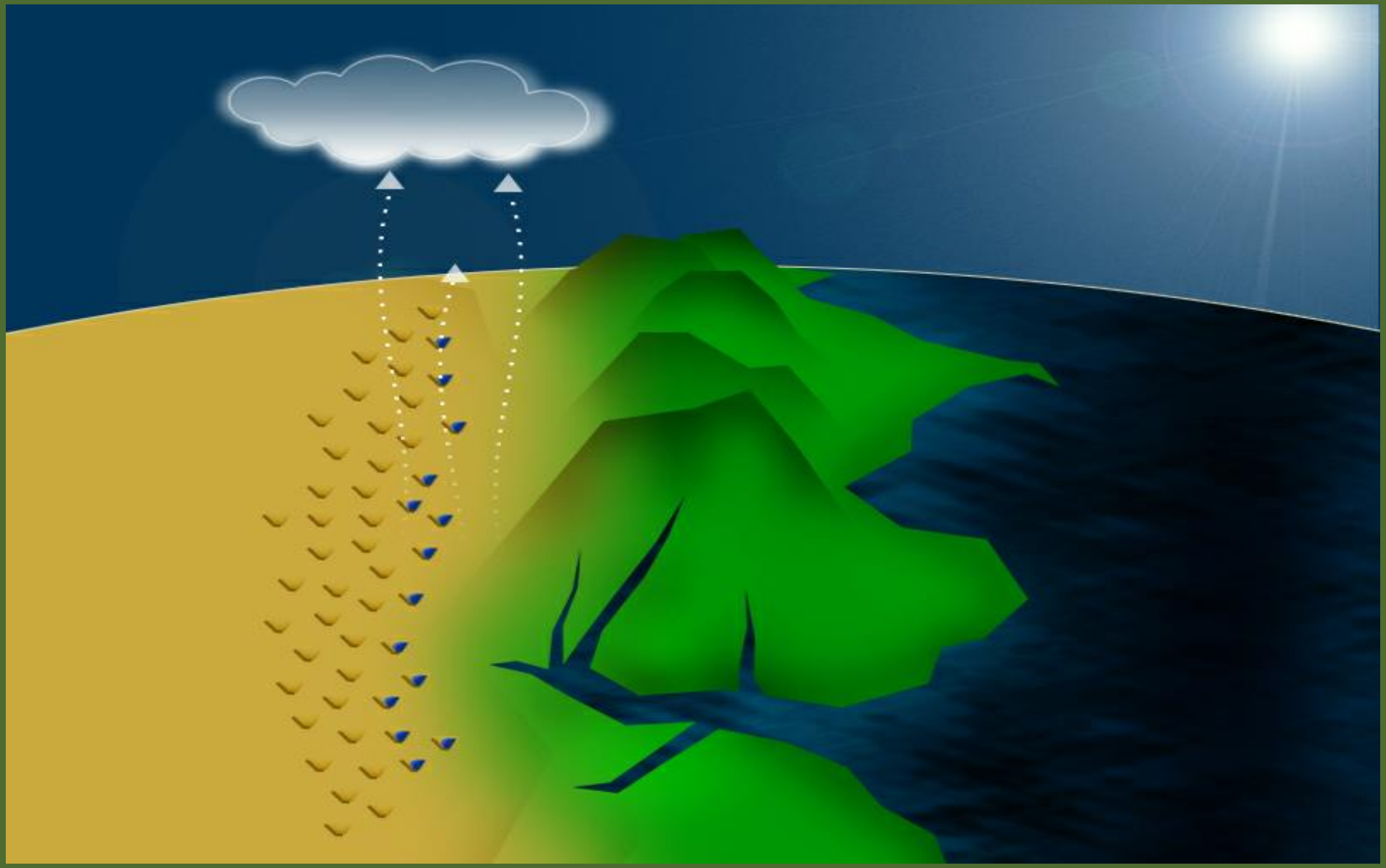
The Role of Ponds

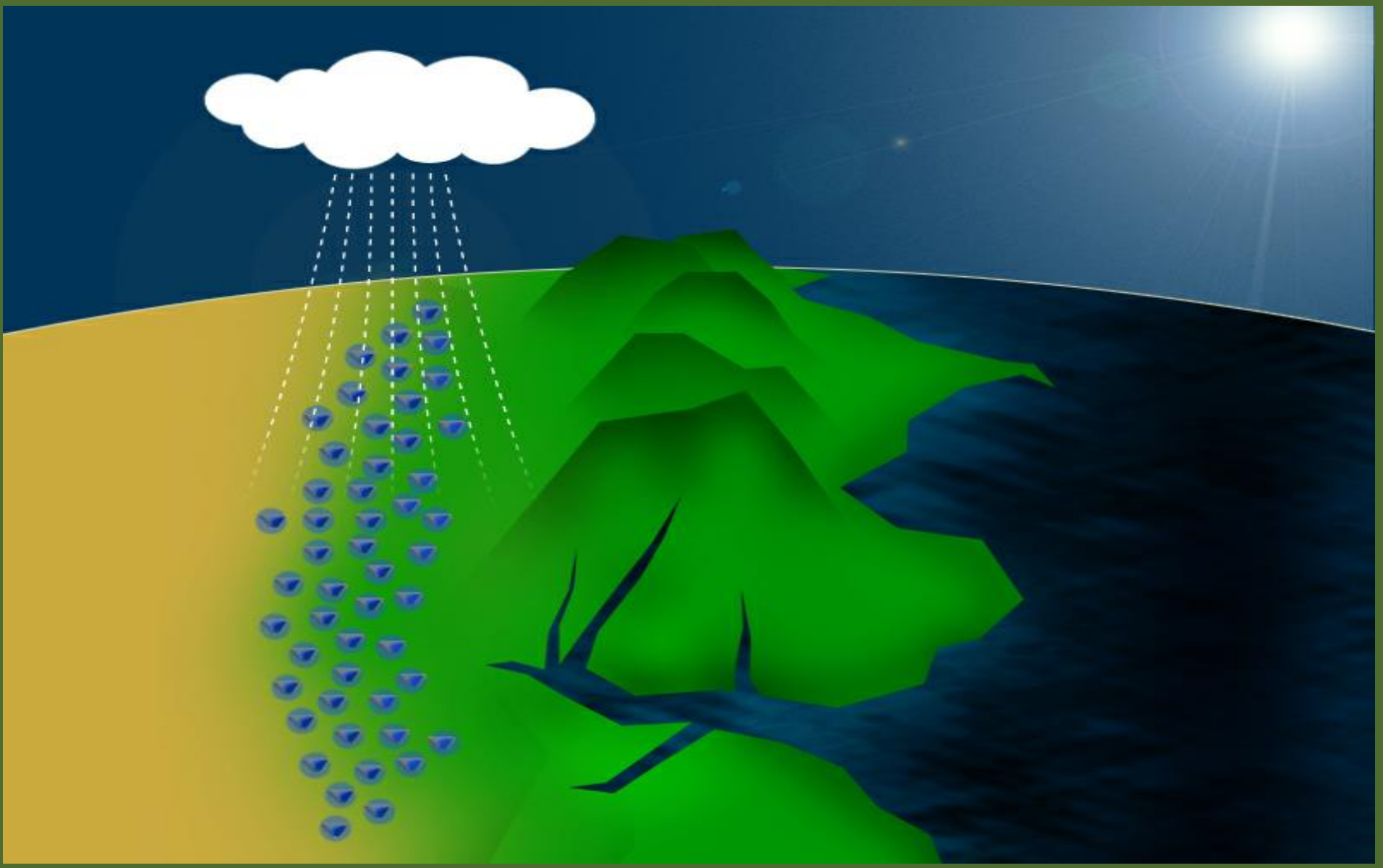




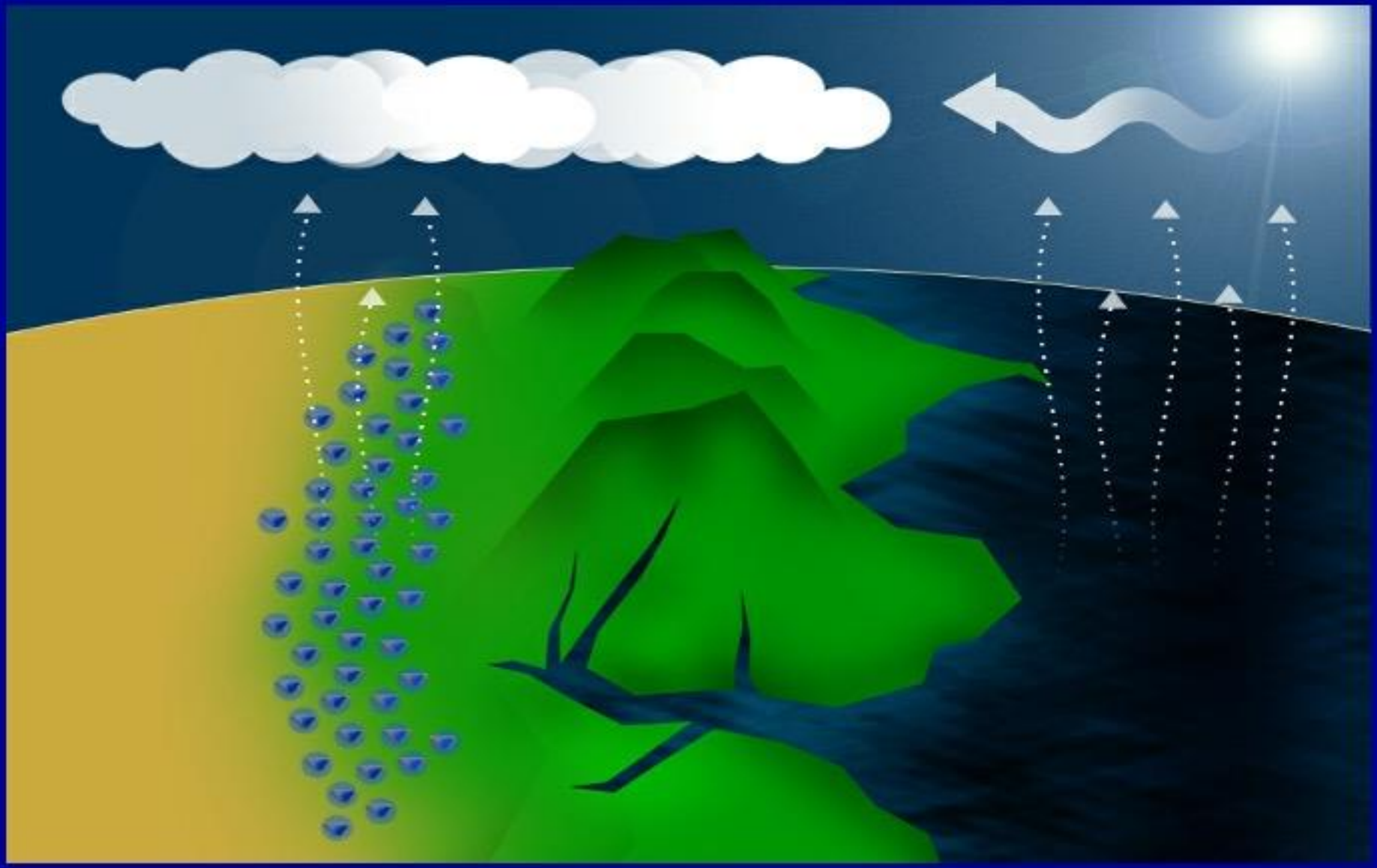




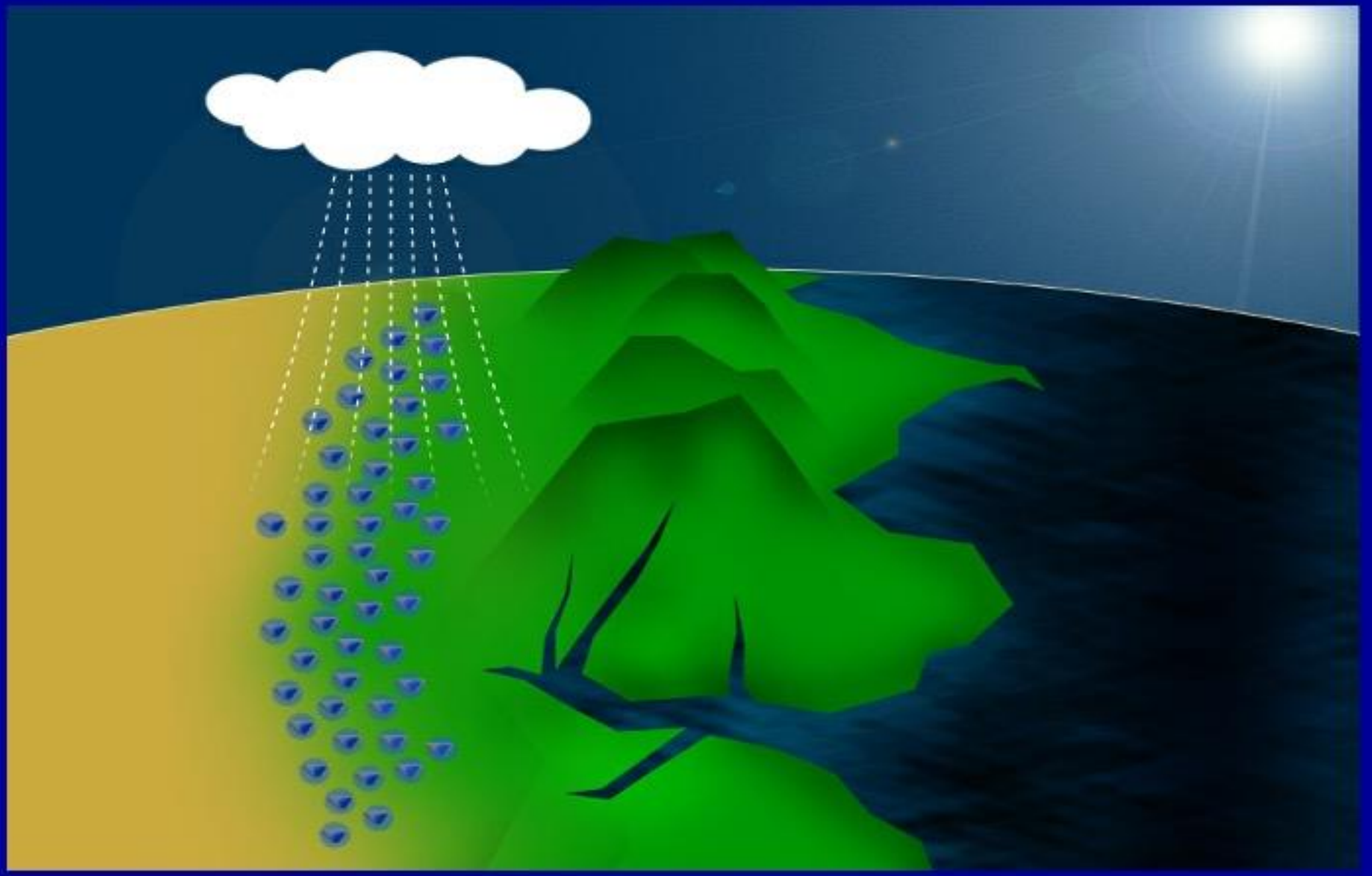




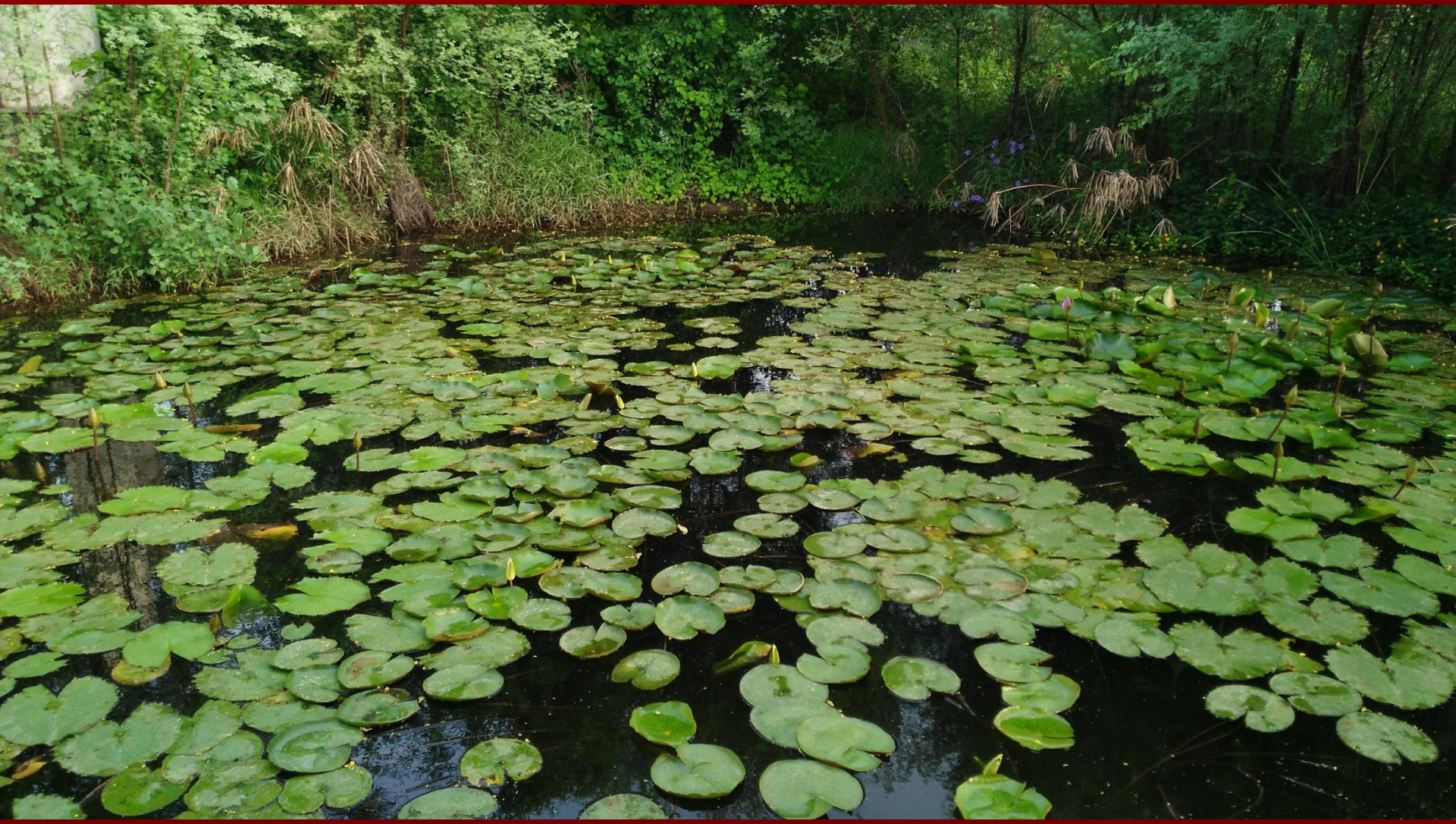
...CONECTING SHORT AND LONG WATER CYCLE



... CREATE THE NEW RAIN FROM CLOUDS



18 YR OLD POND AT FOREST GARDEN SITE IN DARTINGTON, UK



Research Opportunity

To commission a study of these pioneering Forest Garden ponds in Devon (and the trees in the forest garden) to understand how much water they hold and how much carbon they sequester. The evidence will be crucial to inform regenerative agricultural design **and** contributing to managing climate change issues.

If you are interested in furthering this research, please contact us at: minni@earthlinksall.com

A river of individuals, communities, businesses and governments storing water in small easy to build water bodies across the planet

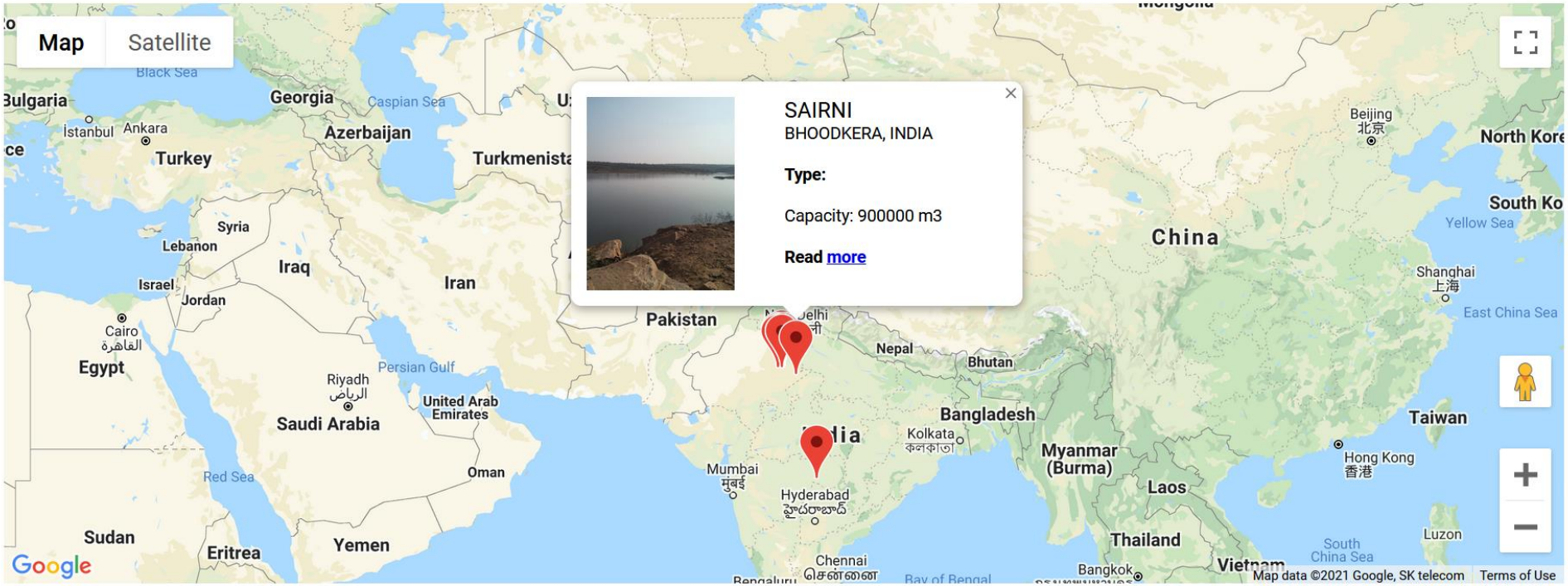
One Pond Fund

Fund a Pond

One Pond Fund

In returning the planet to becoming water rich again, a new approach with a community focus is needed, based on traditional methods and wisdom and coupled with a resourcing model that enables people to create and value water and its essential benefits.

THE PROJECT BANK



Projects to be funded (red); completed and funded projects (black)

Thank you

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