

Wasser pflanzen

Mit der Natur arbeiten, um das Klima durch Pflanzen, Böden und Wasser positiv zu verändern



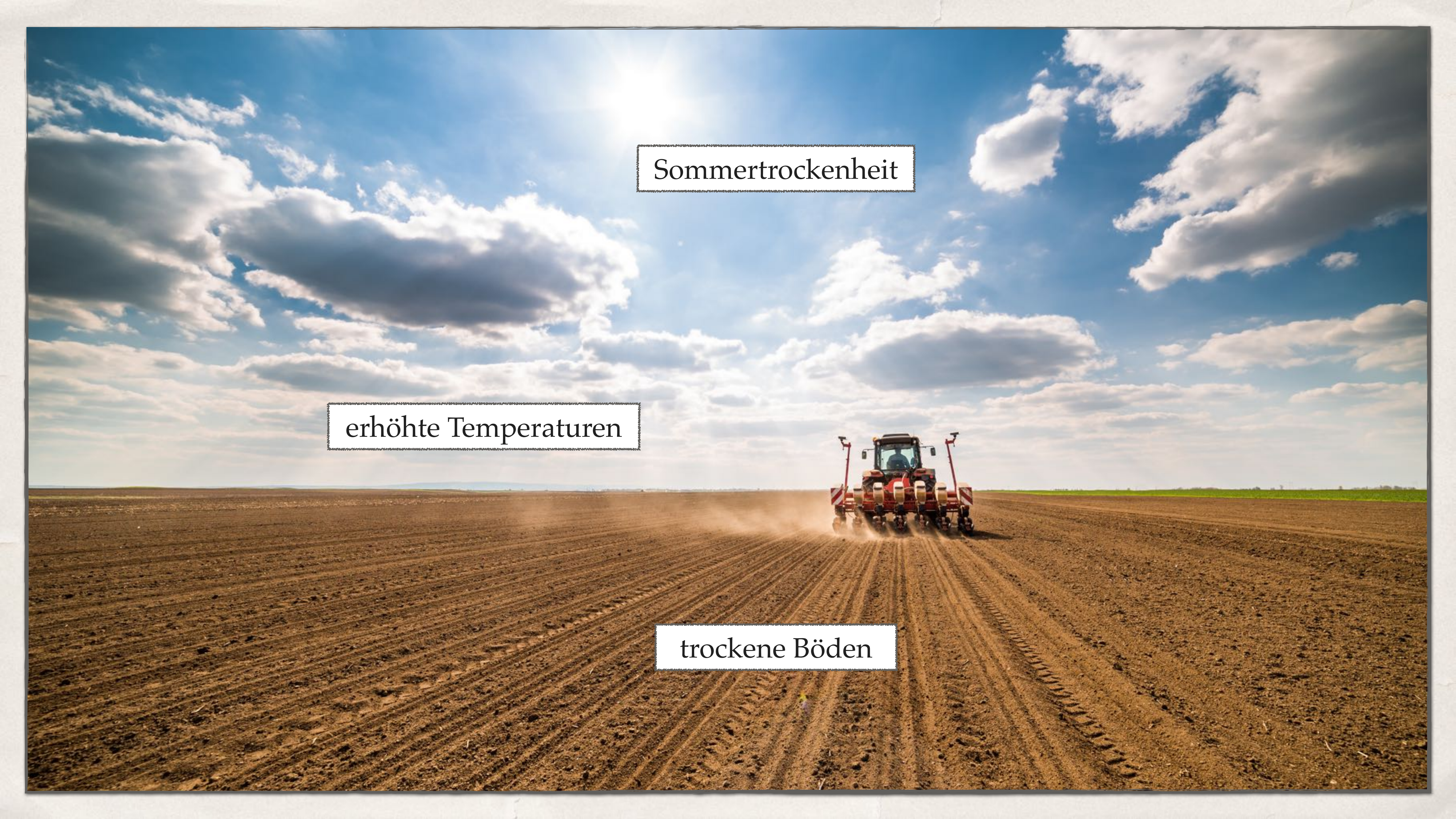
Sommertrockenheit





Sommertrockenheit

erhöhte Temperaturen



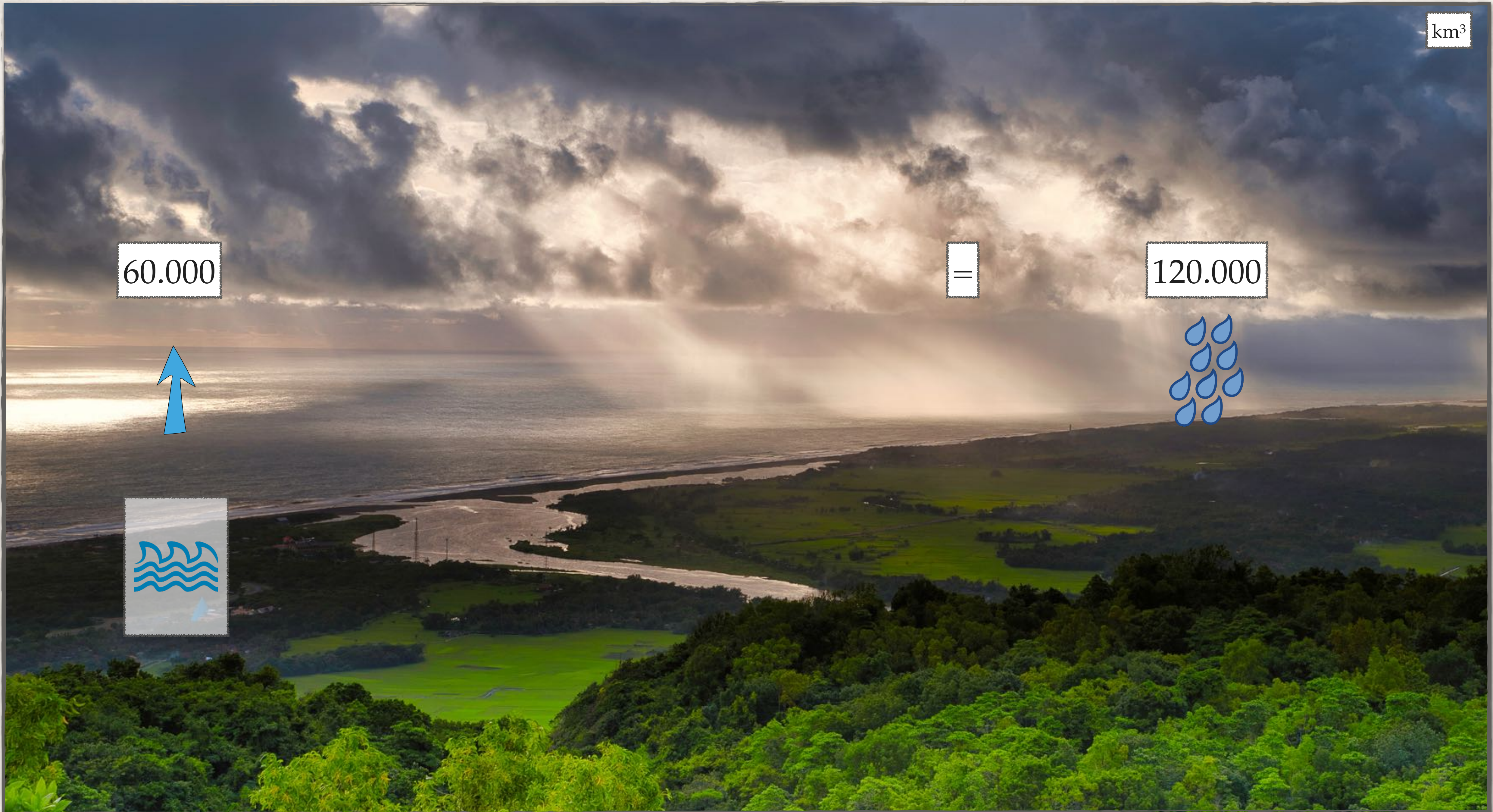
Sommertrockenheit

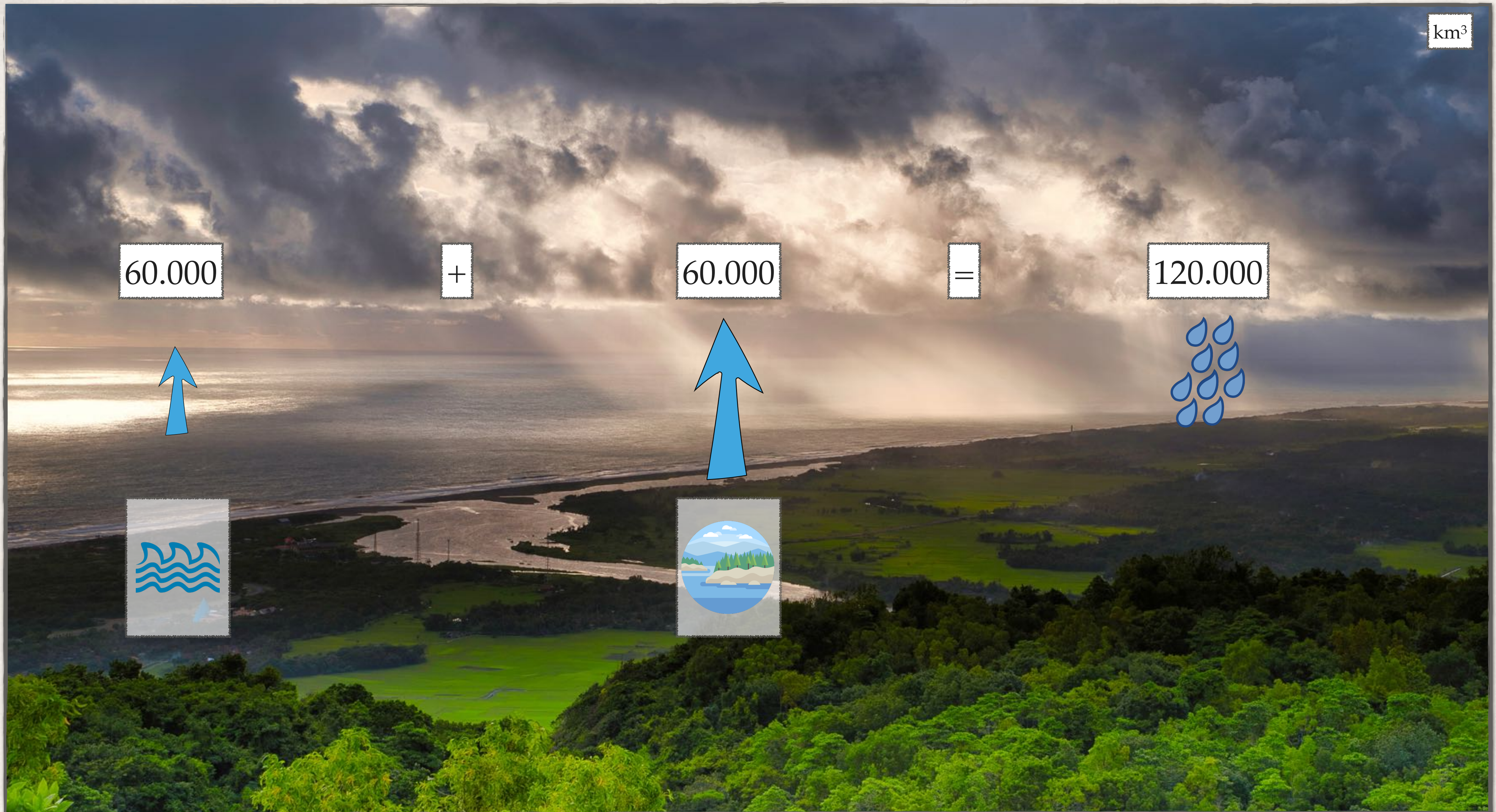
erhöhte Temperaturen

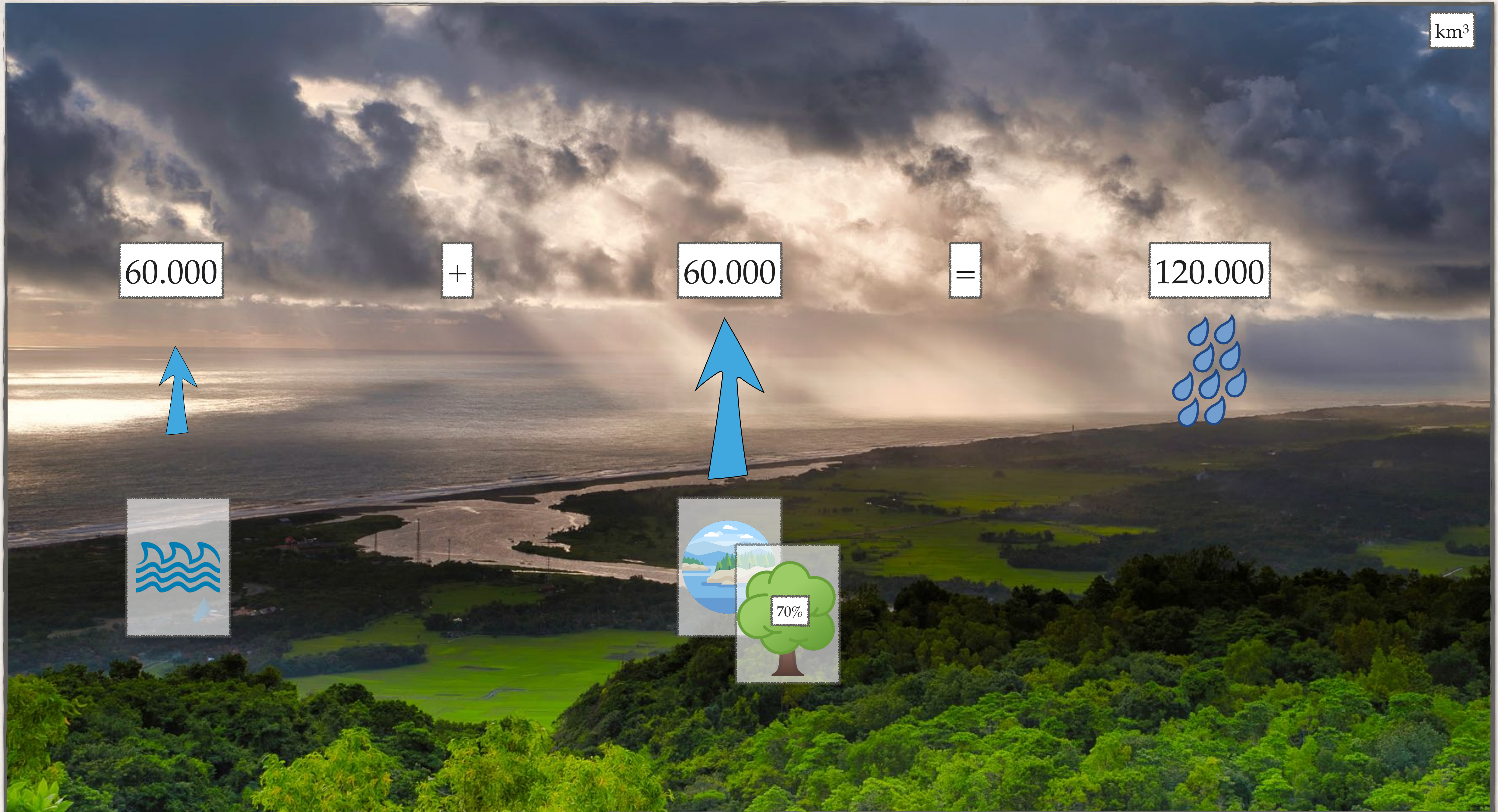
trockene Böden











km³

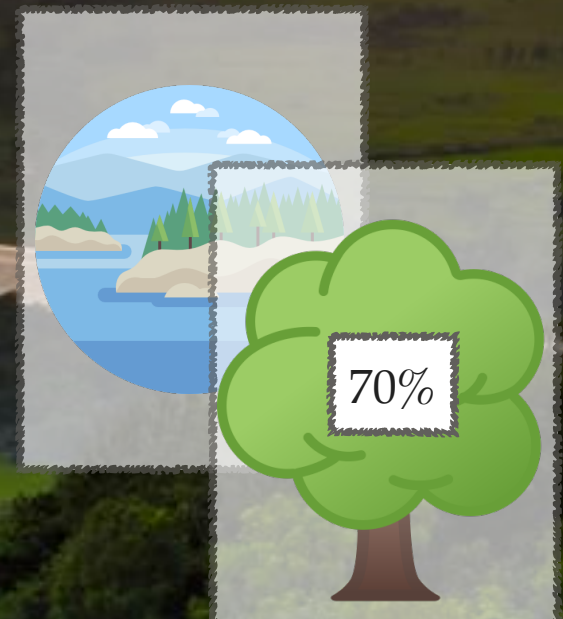
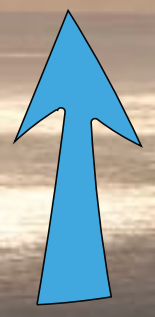
60.000

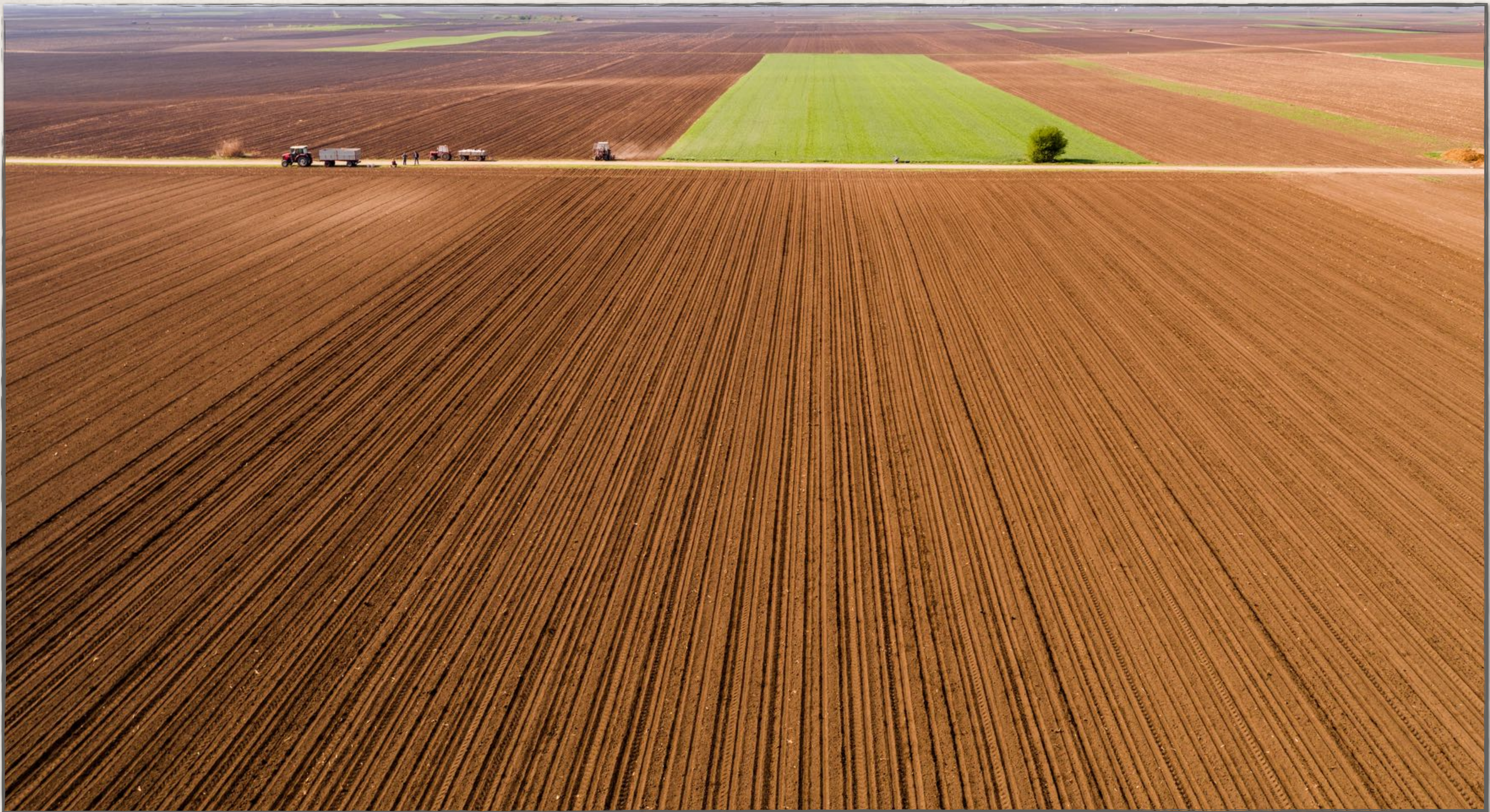
+

60.000

=

120.000





400 Liter Wasser / Tag



400 Liter Wasser / Tag

100 Liter Wasser = 70 kWh



400 Liter Wasser / Tag

100 Liter Wasser = 70 kWh



8 Klimaanlage à 24h

400 Liter Wasser / Tag

100 Liter Wasser = 70 kWh



8 Klimaanlage à 24h







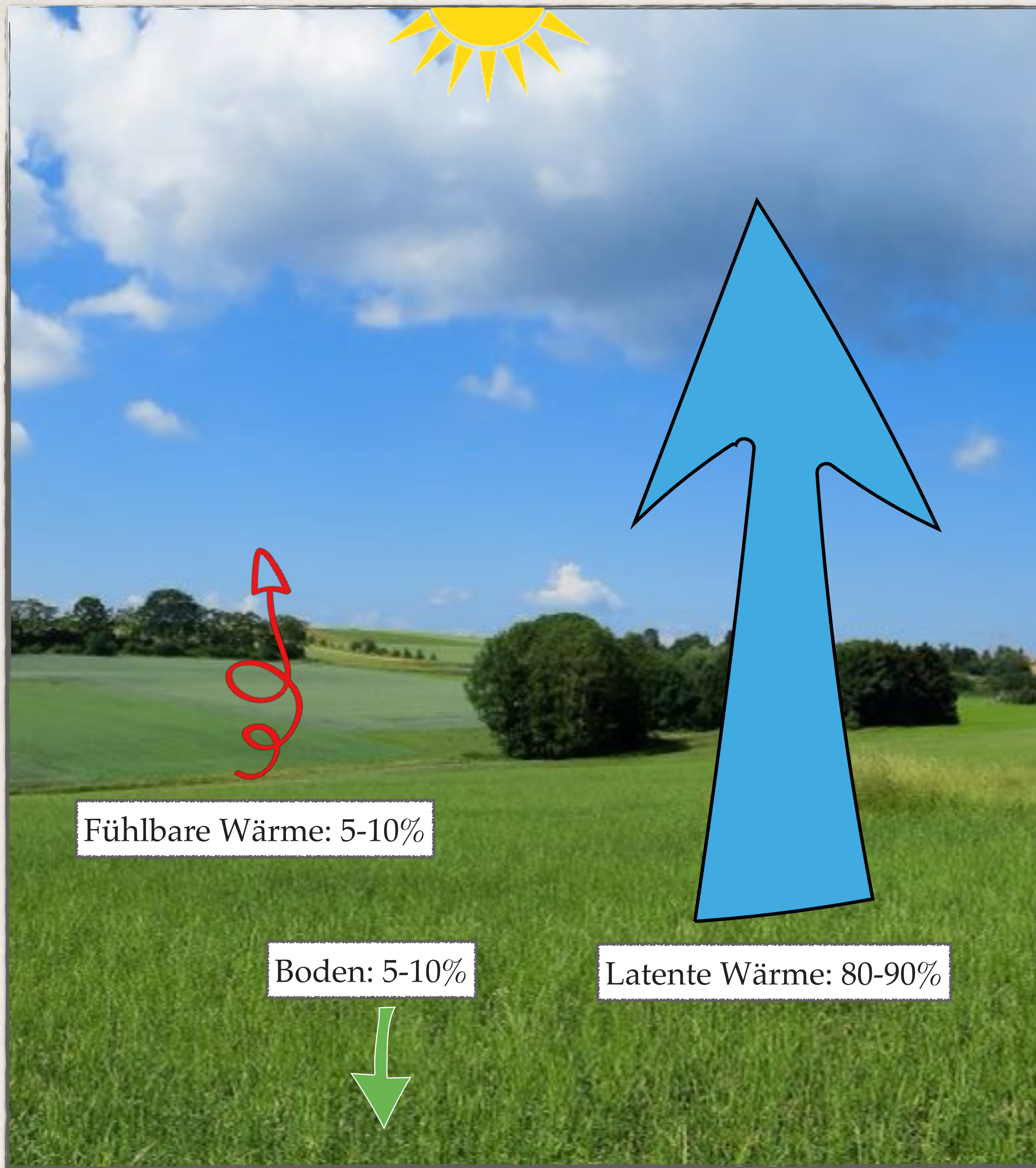
Boden: 5-10%

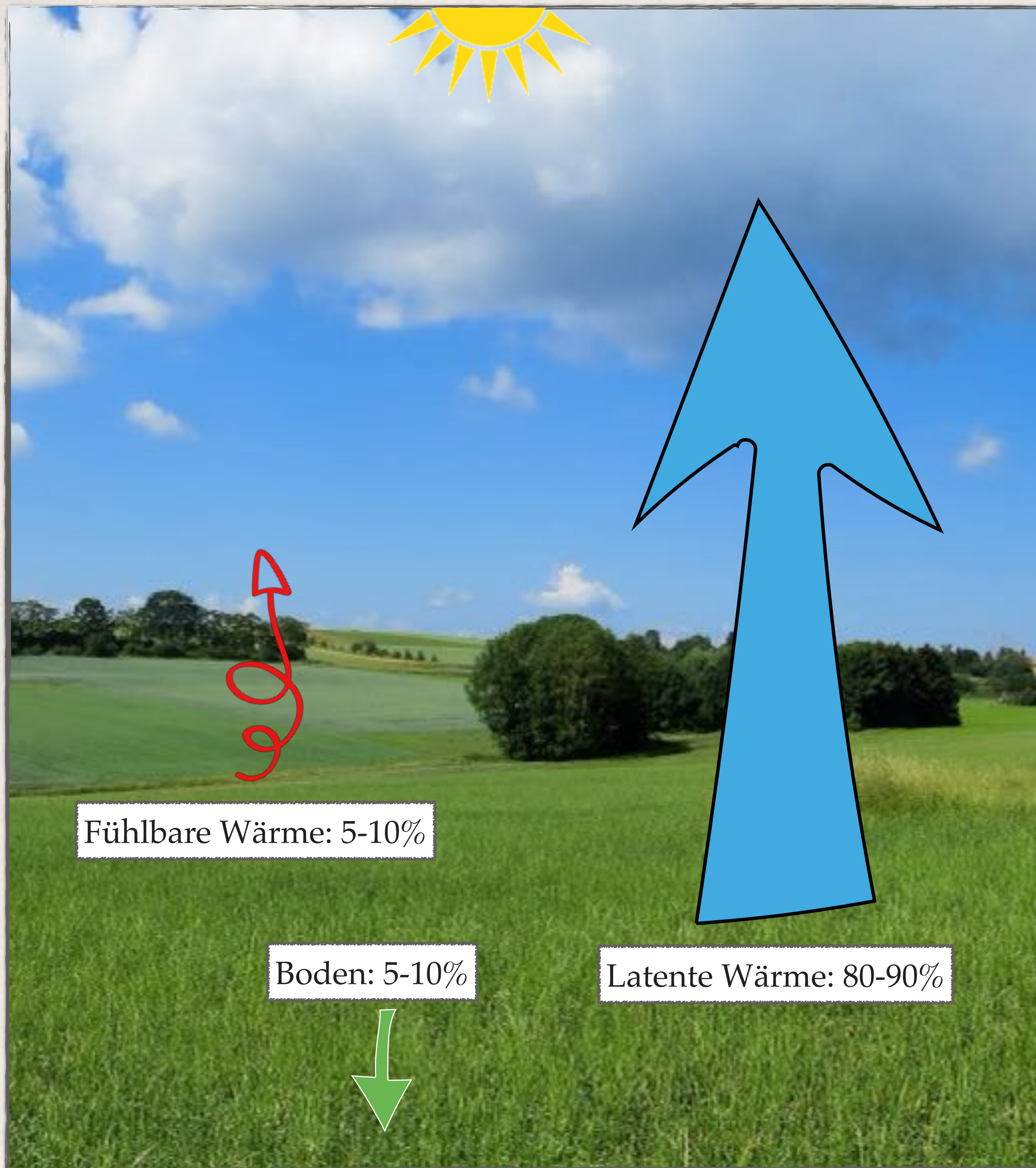


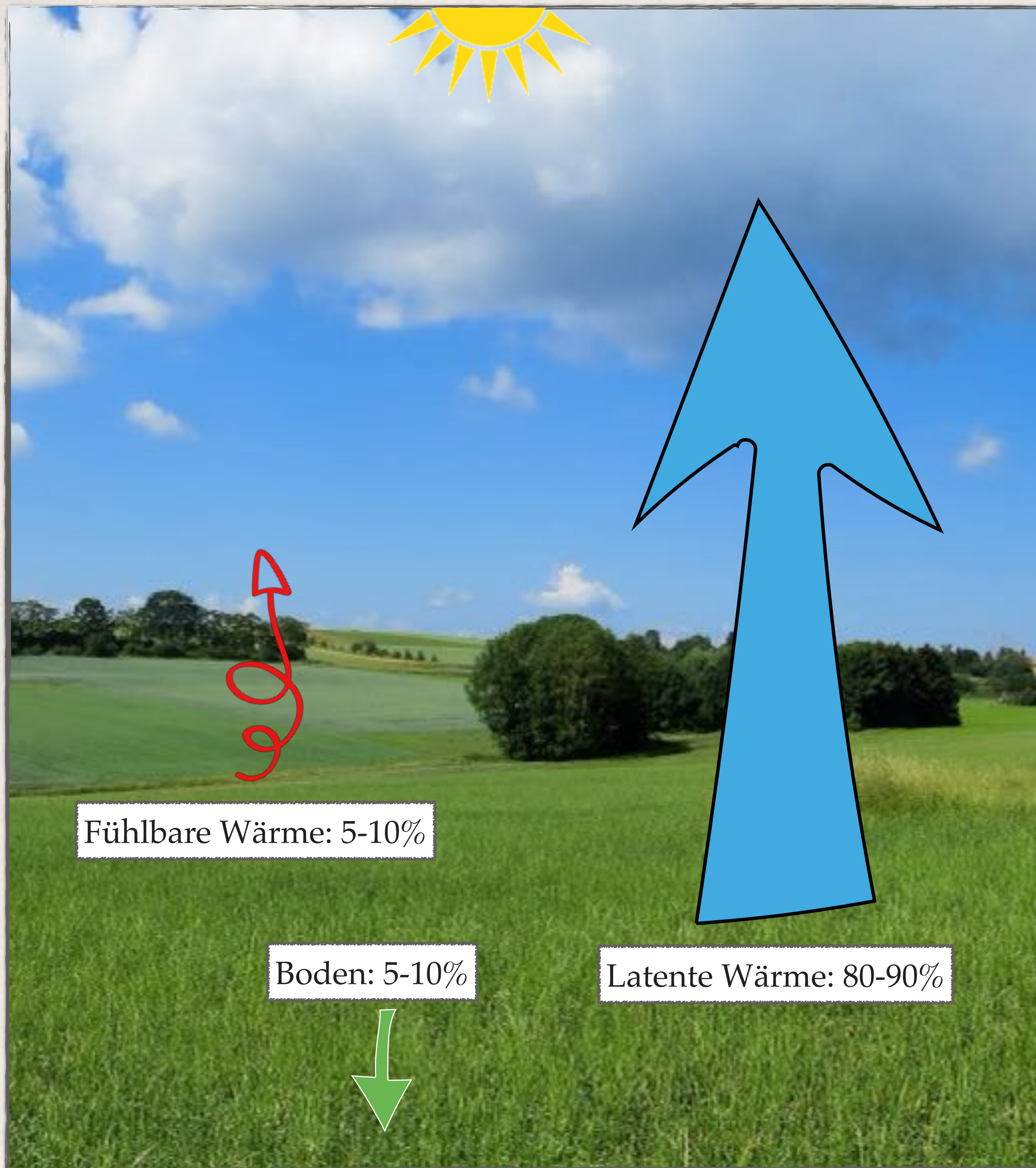


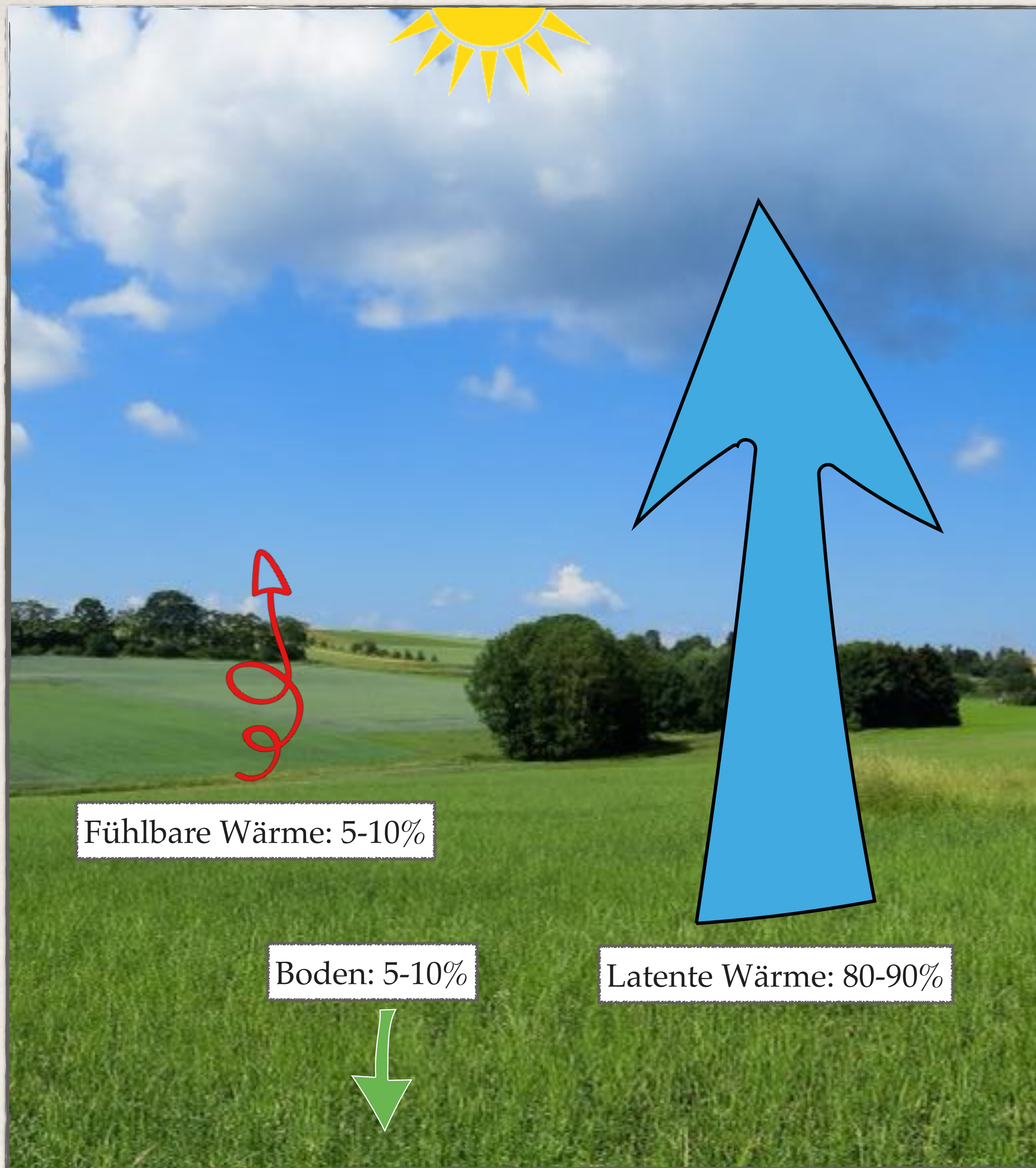
Fühlbare Wärme: 5-10%

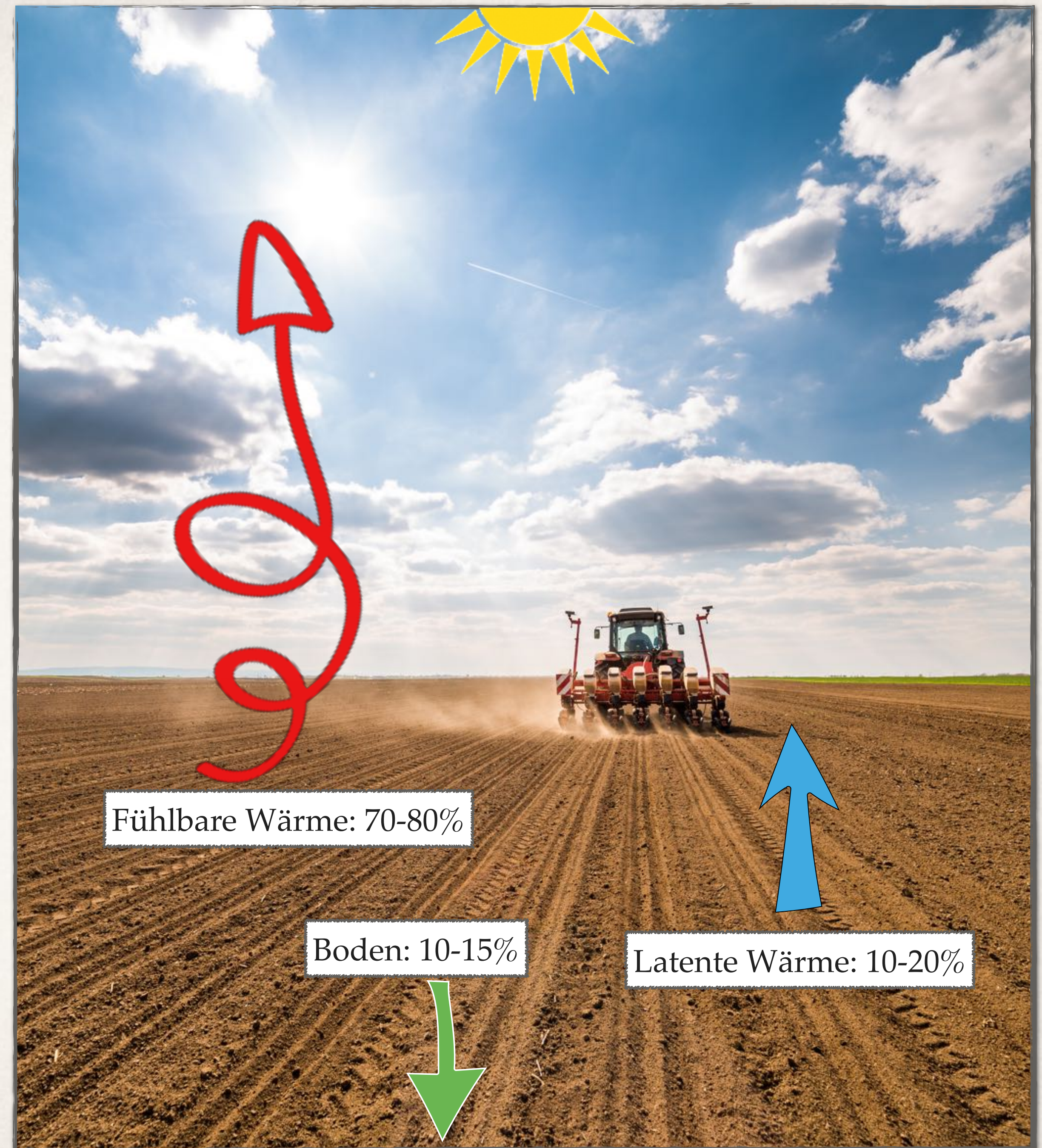
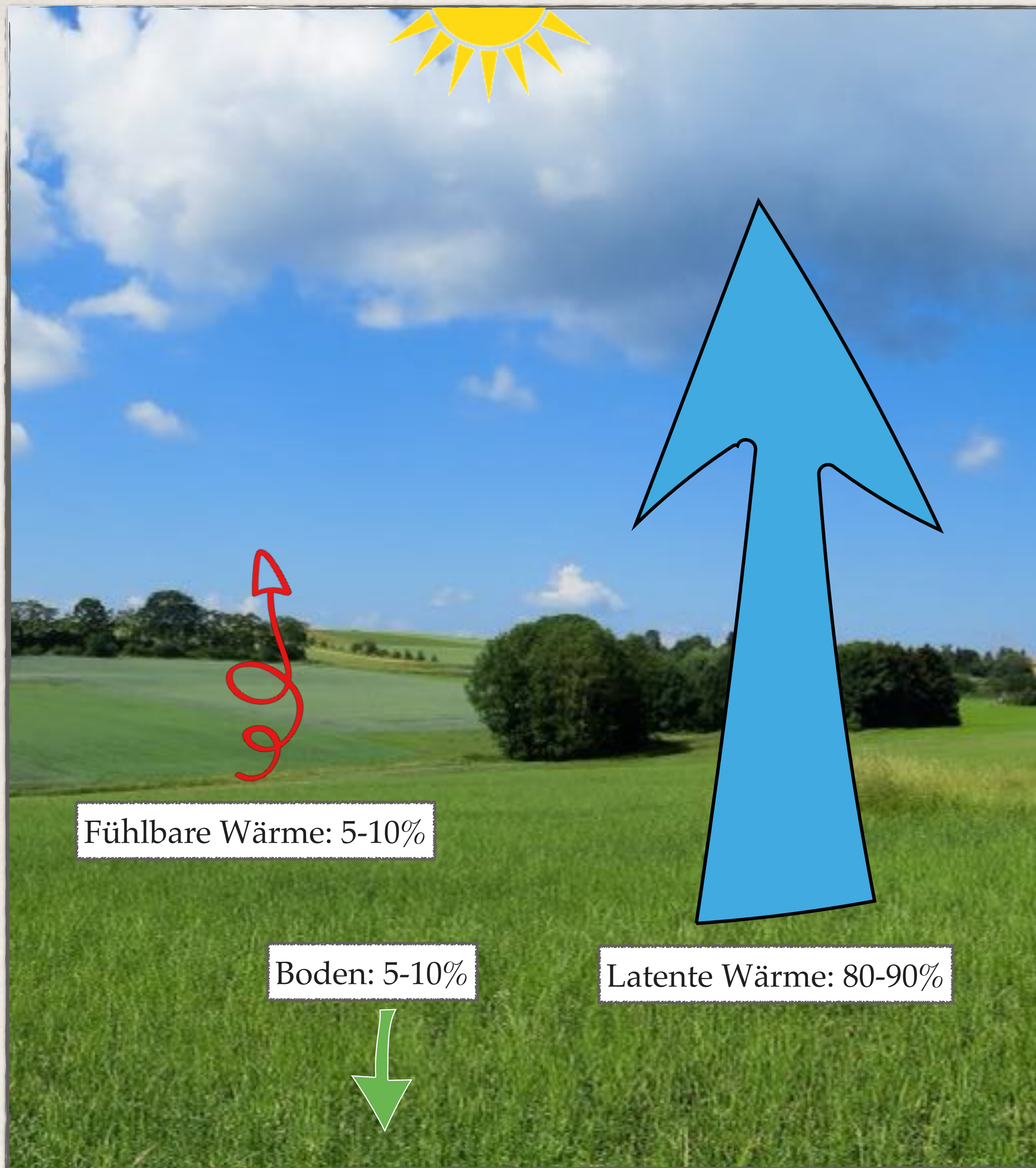
Boden: 5-10%

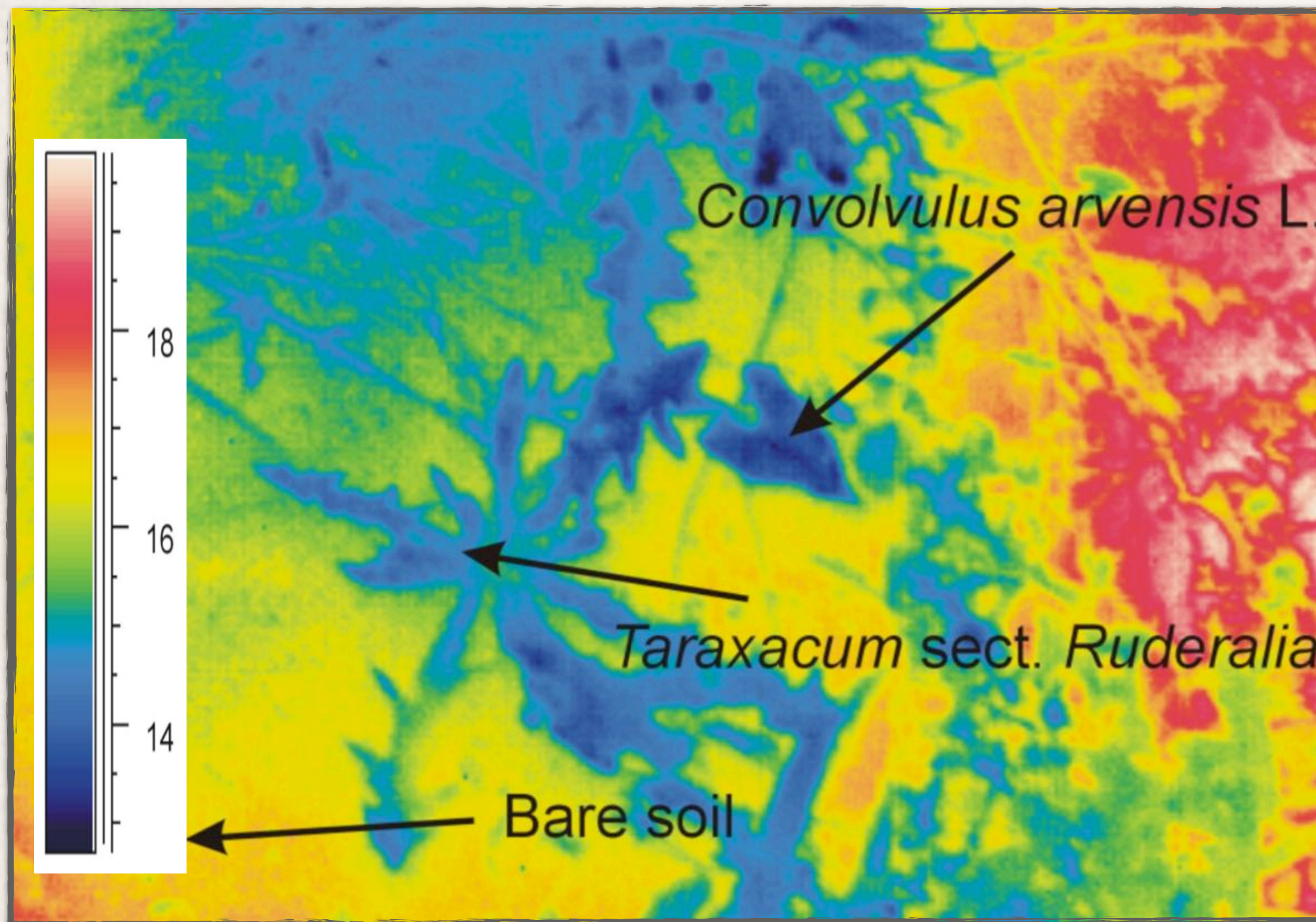


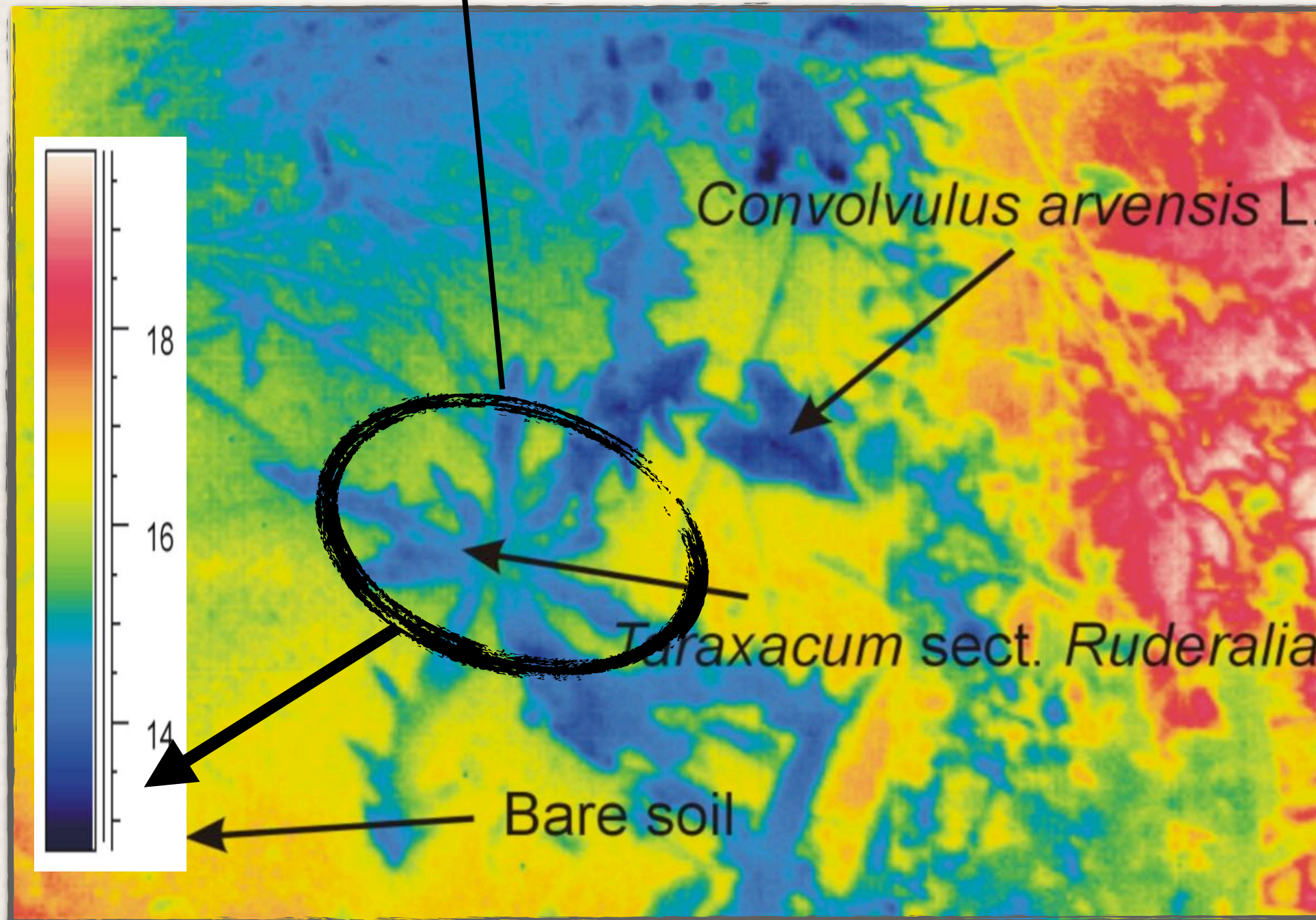


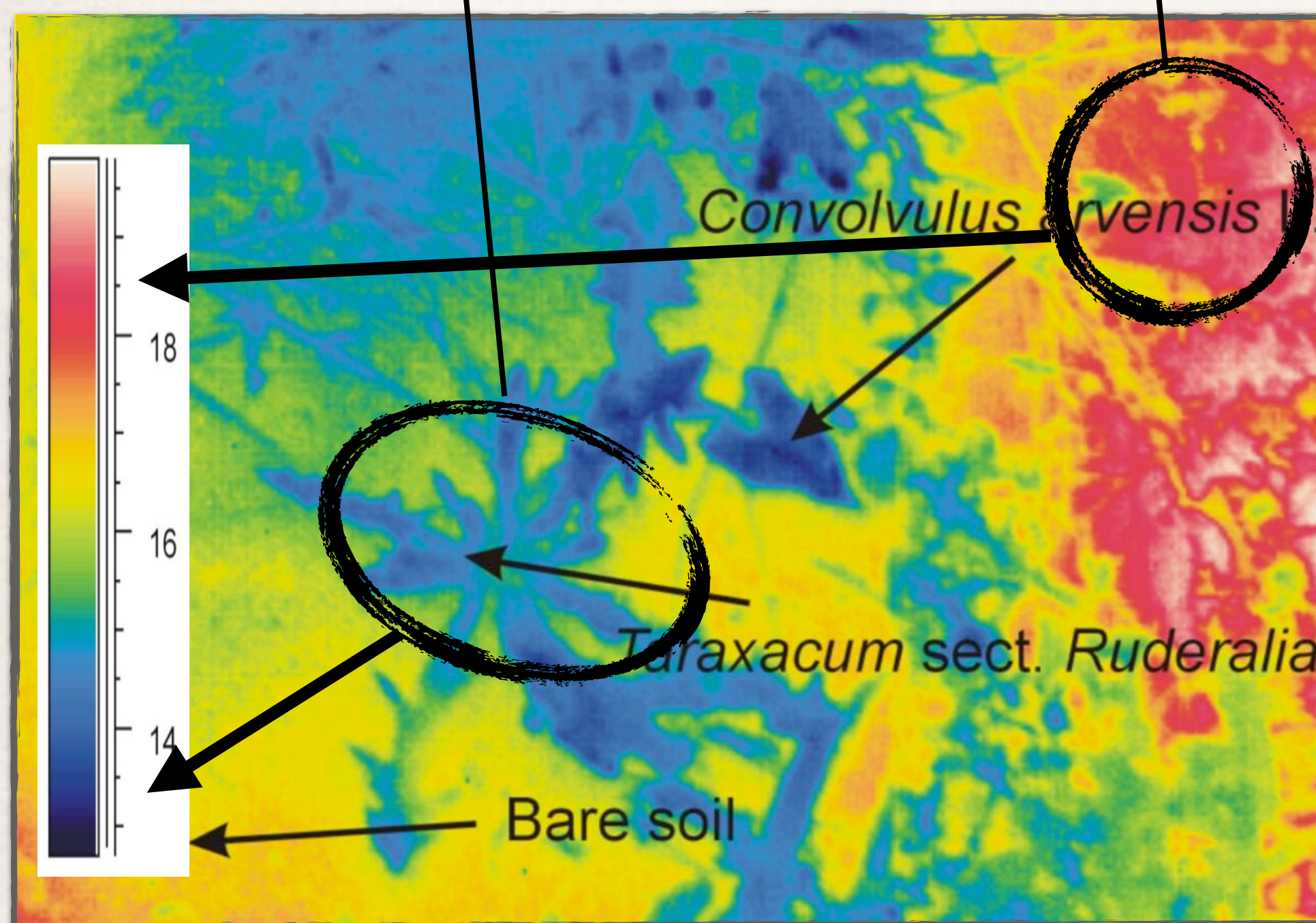


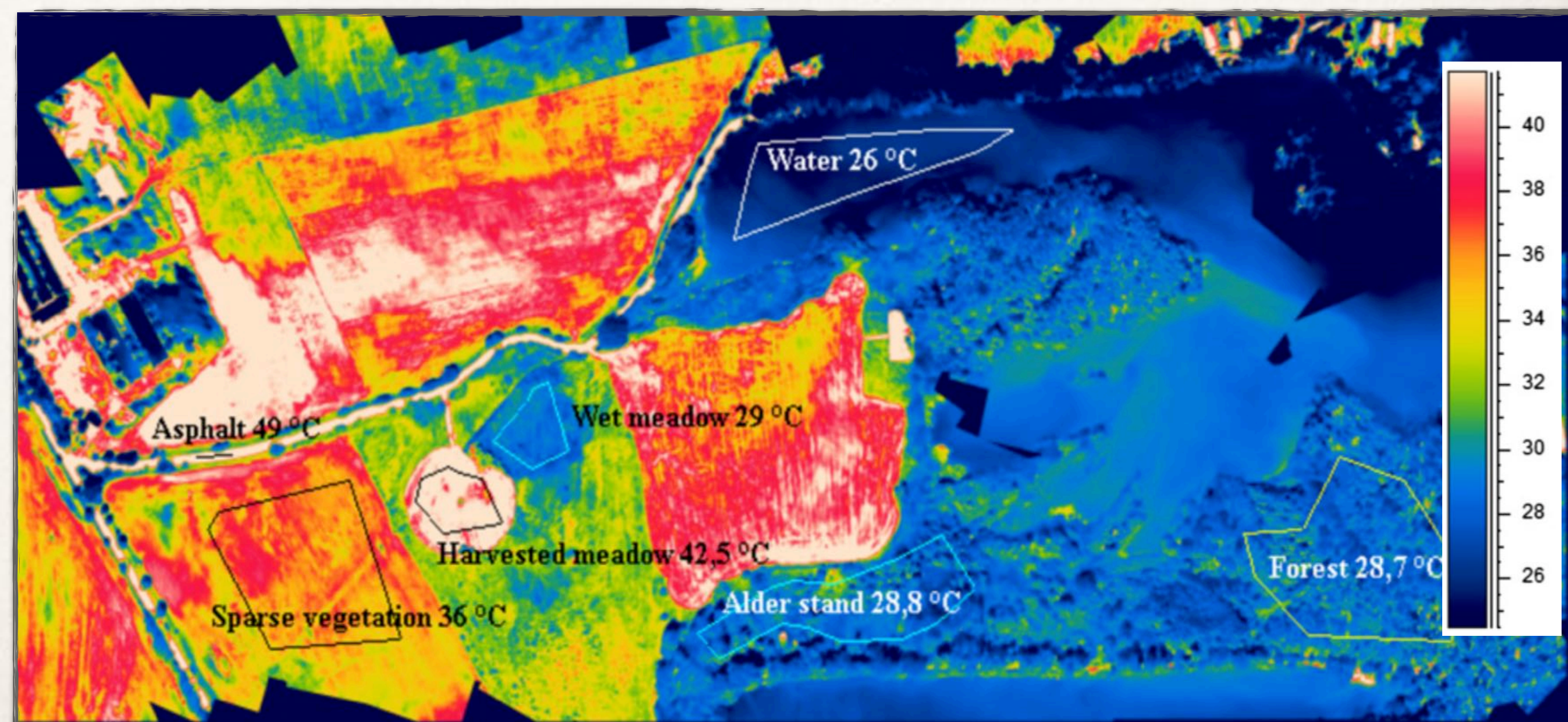
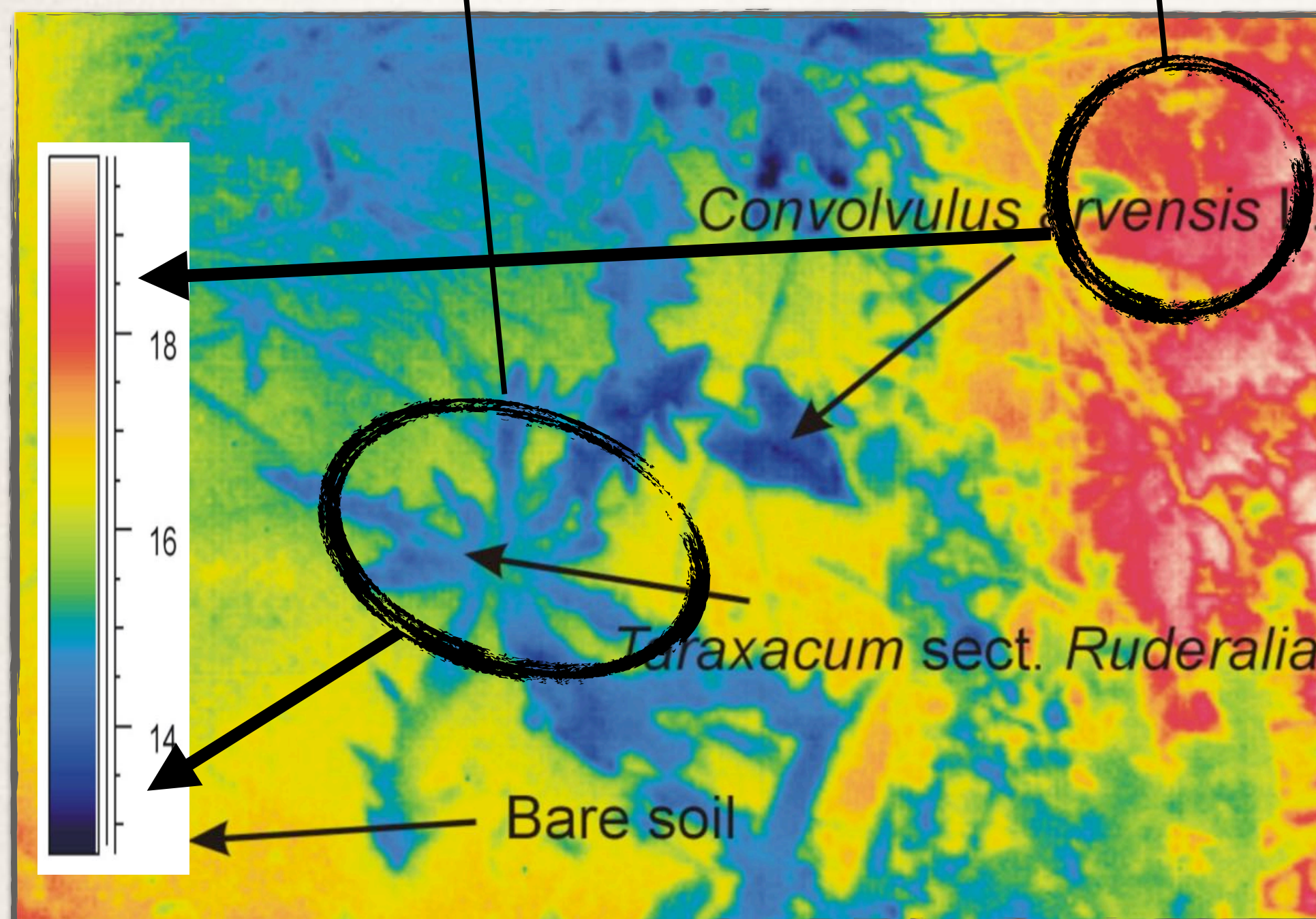


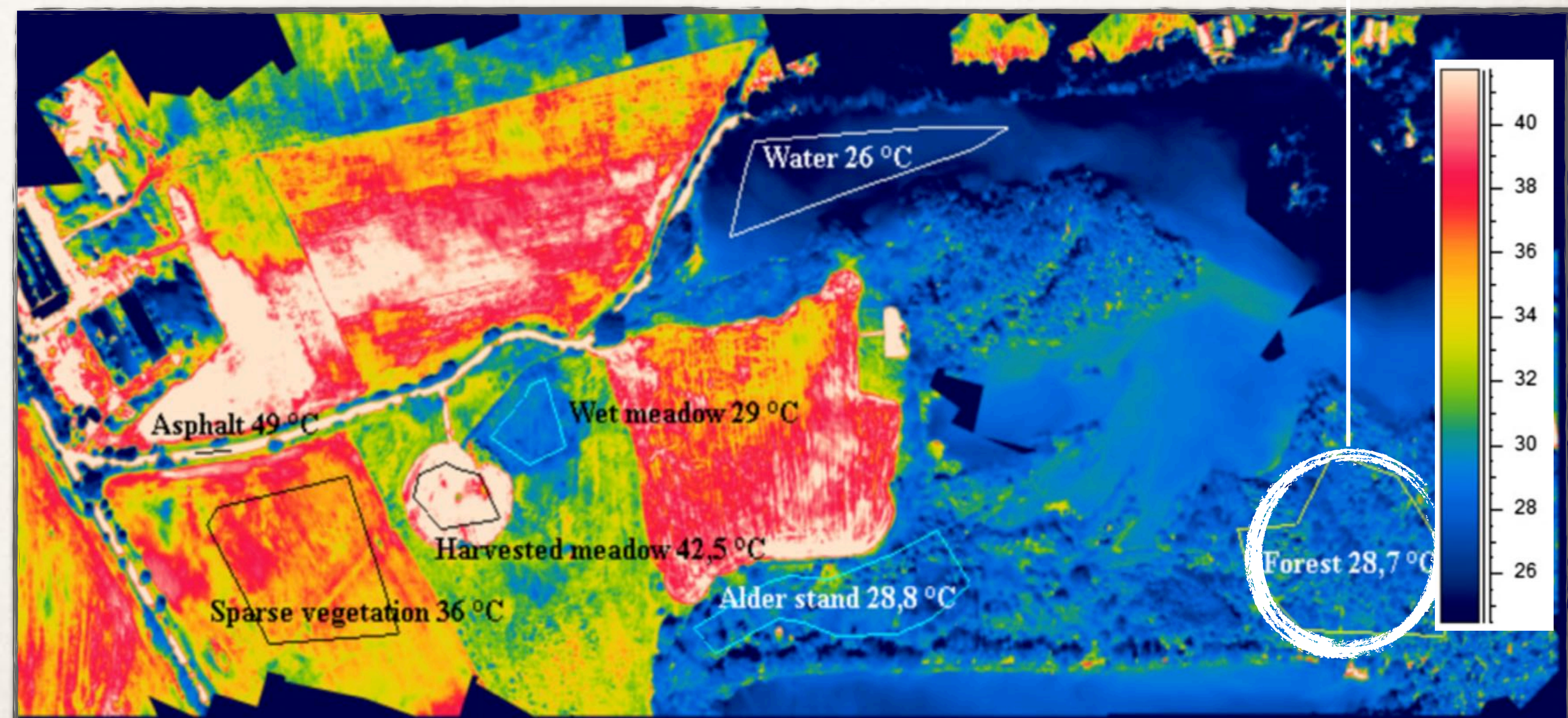
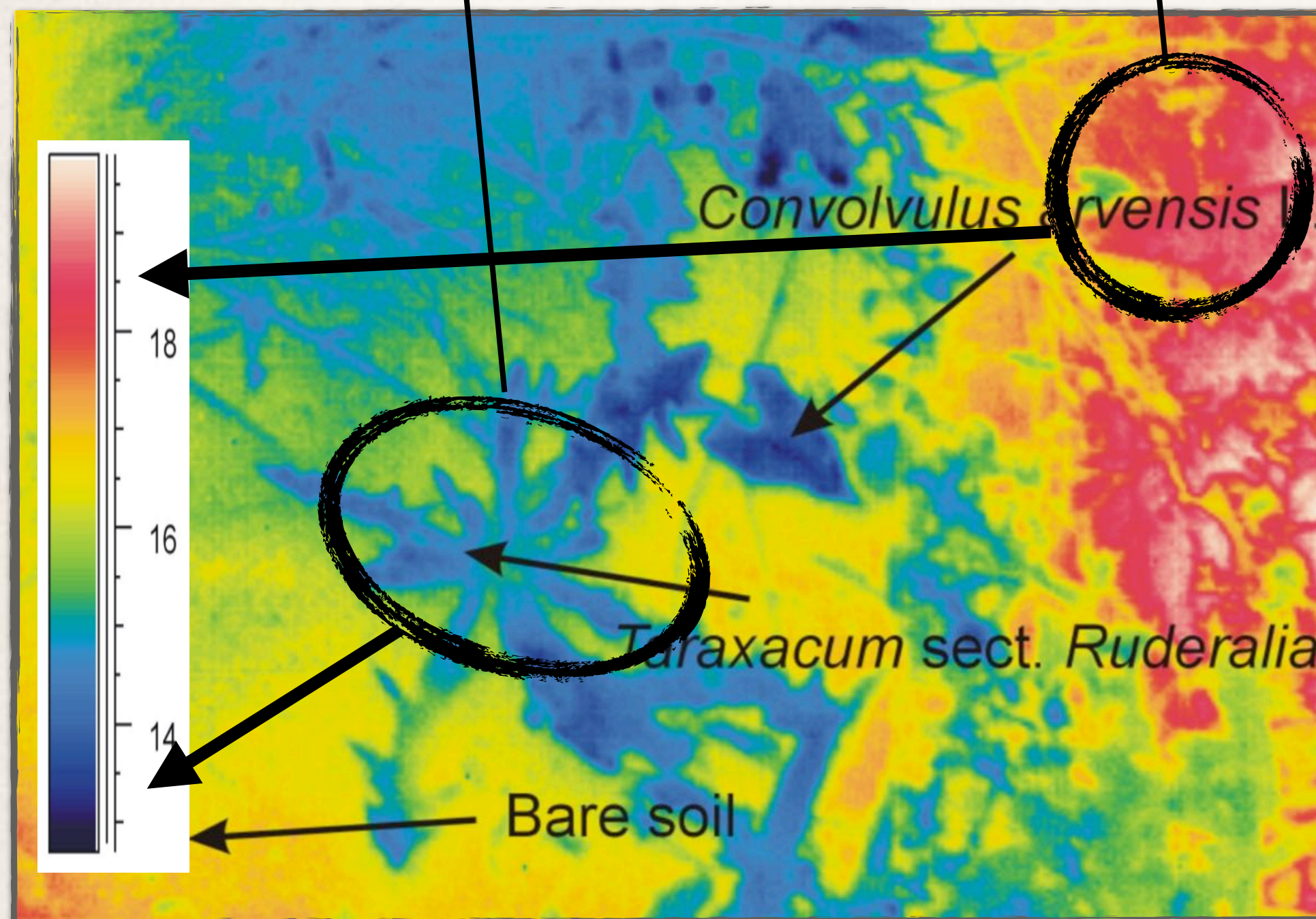


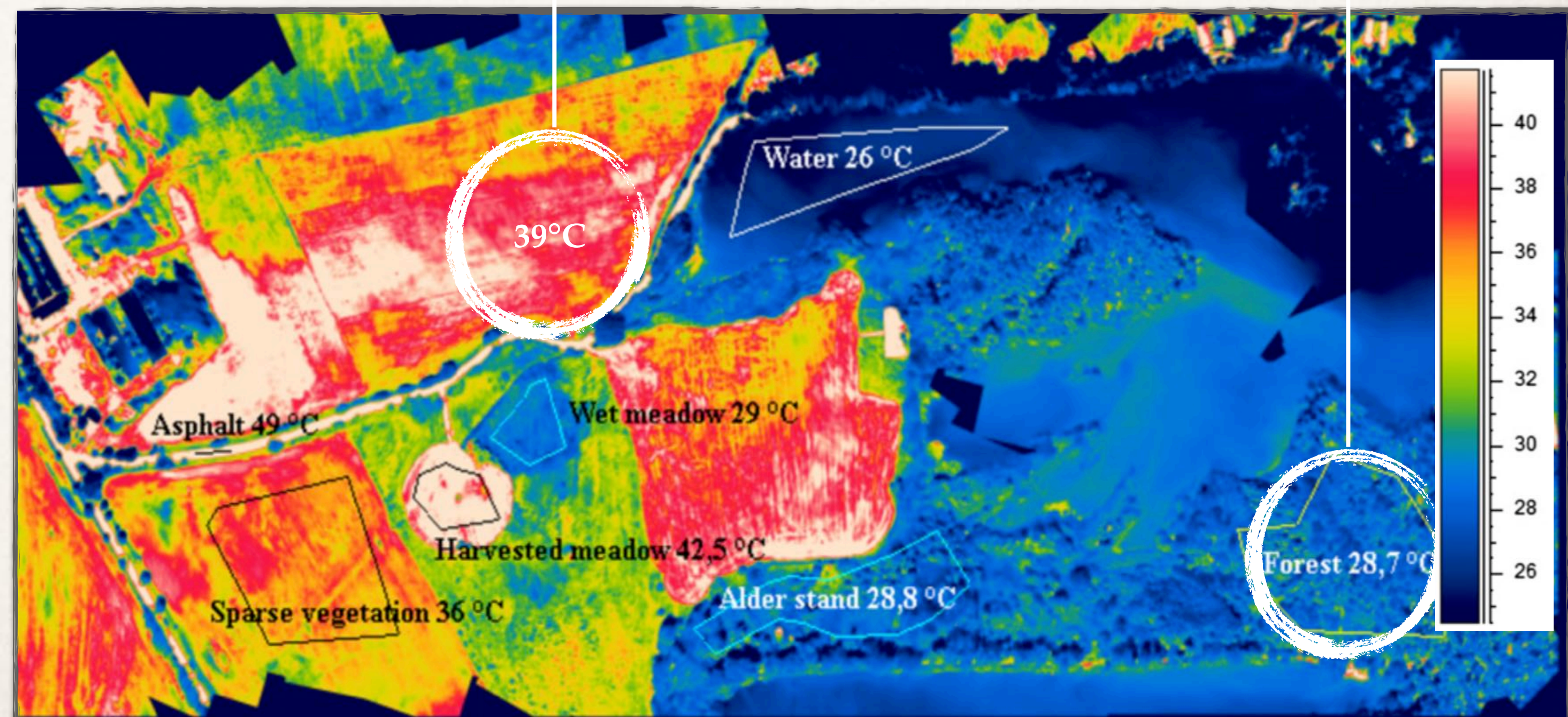
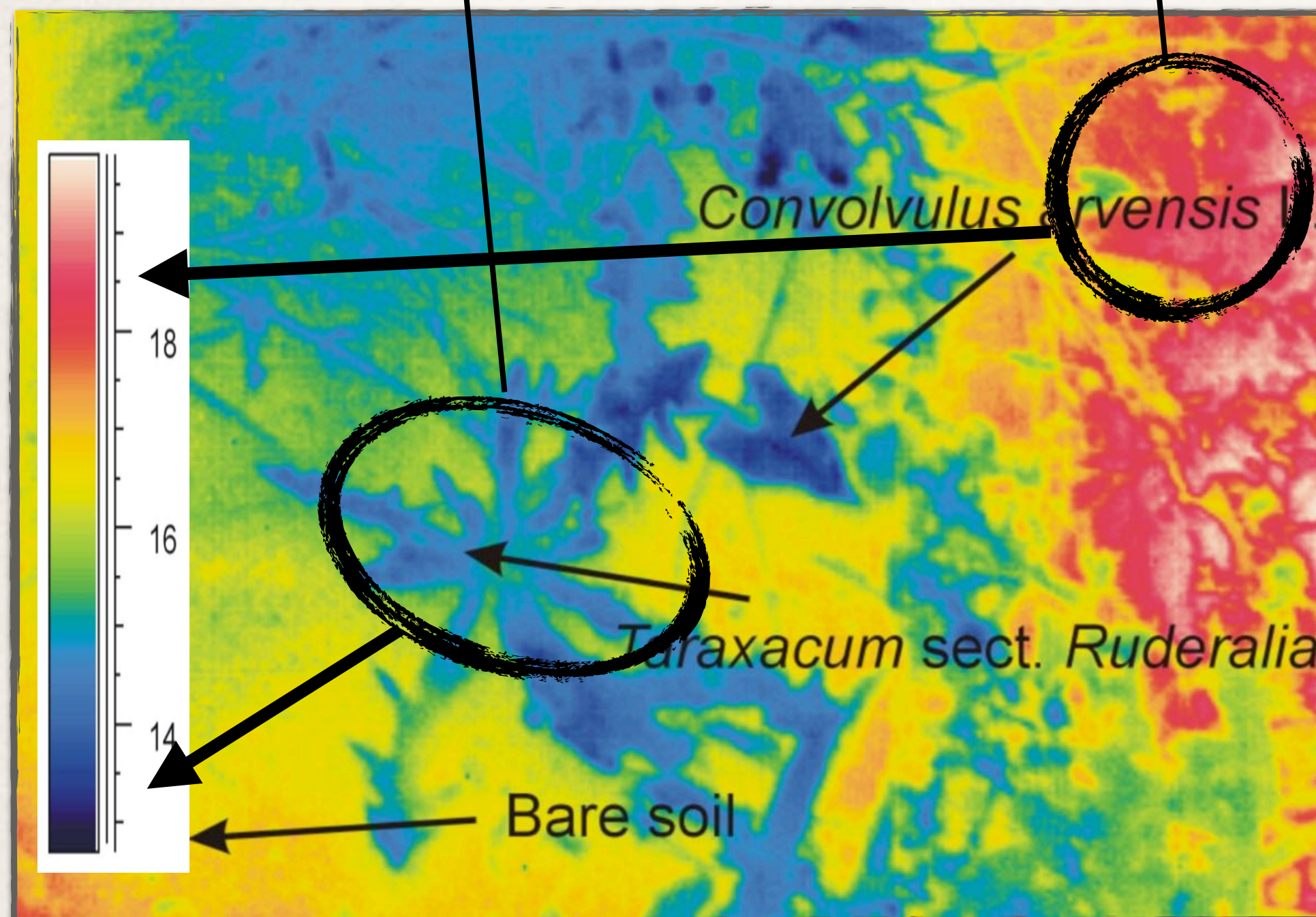


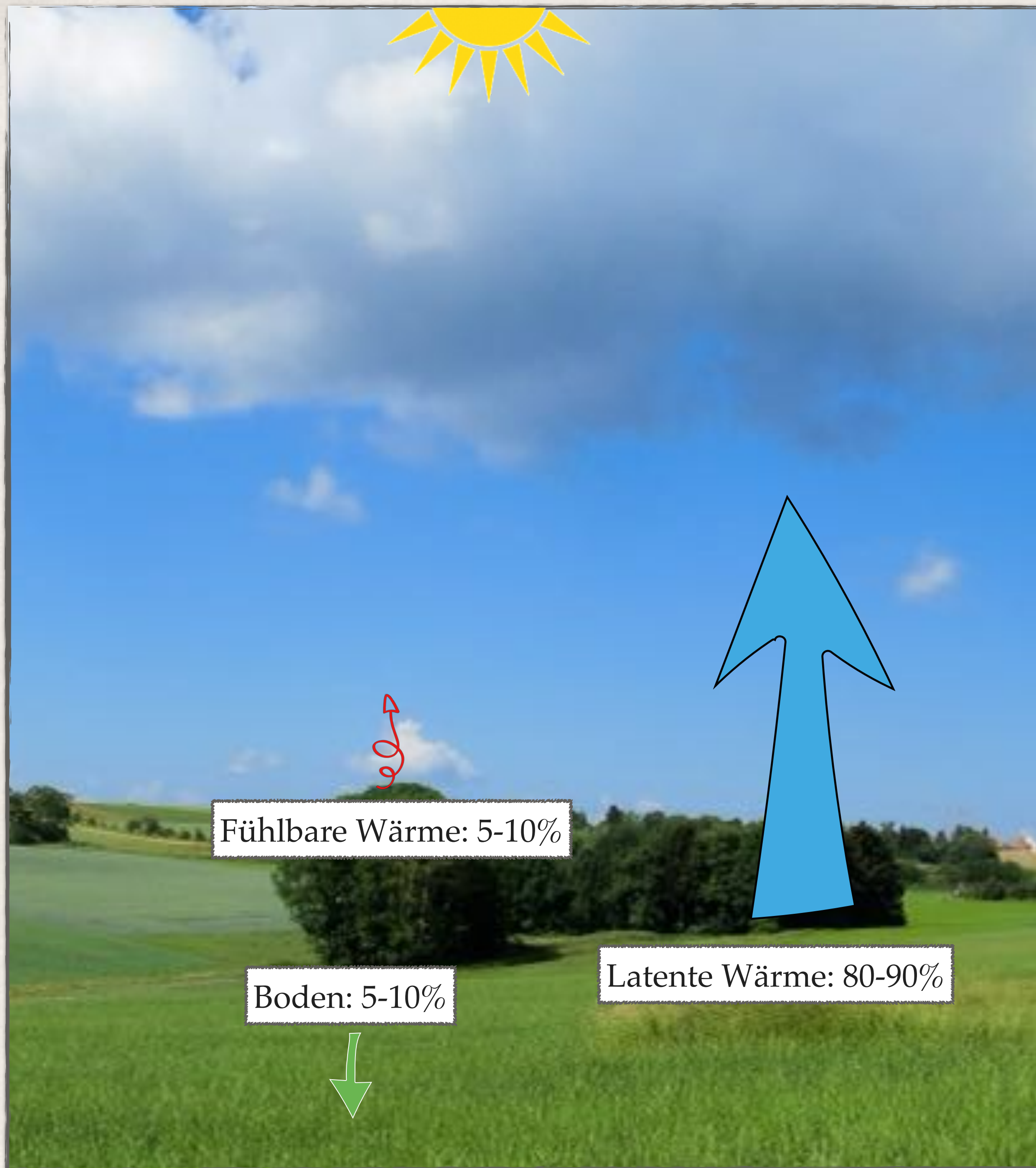


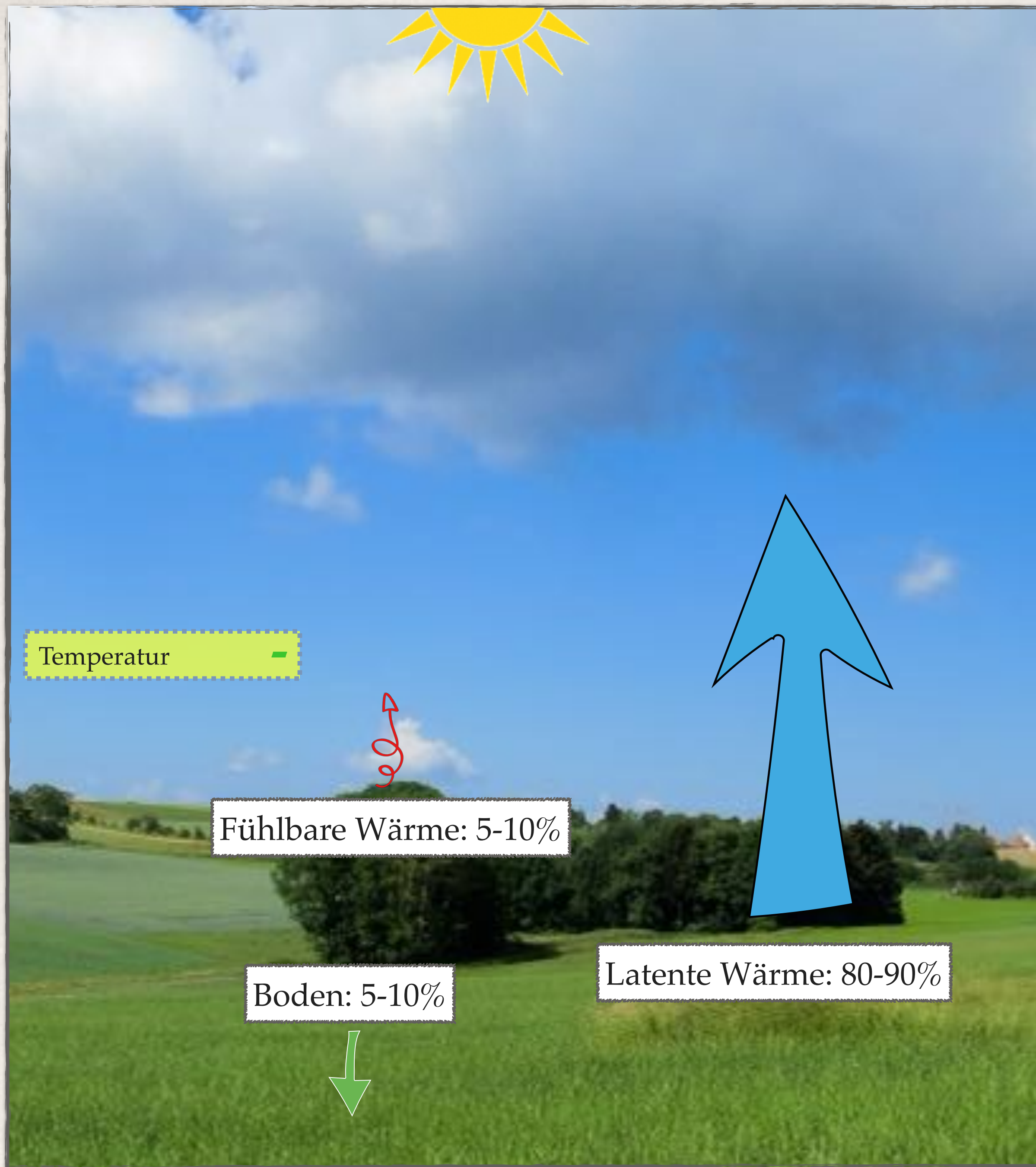


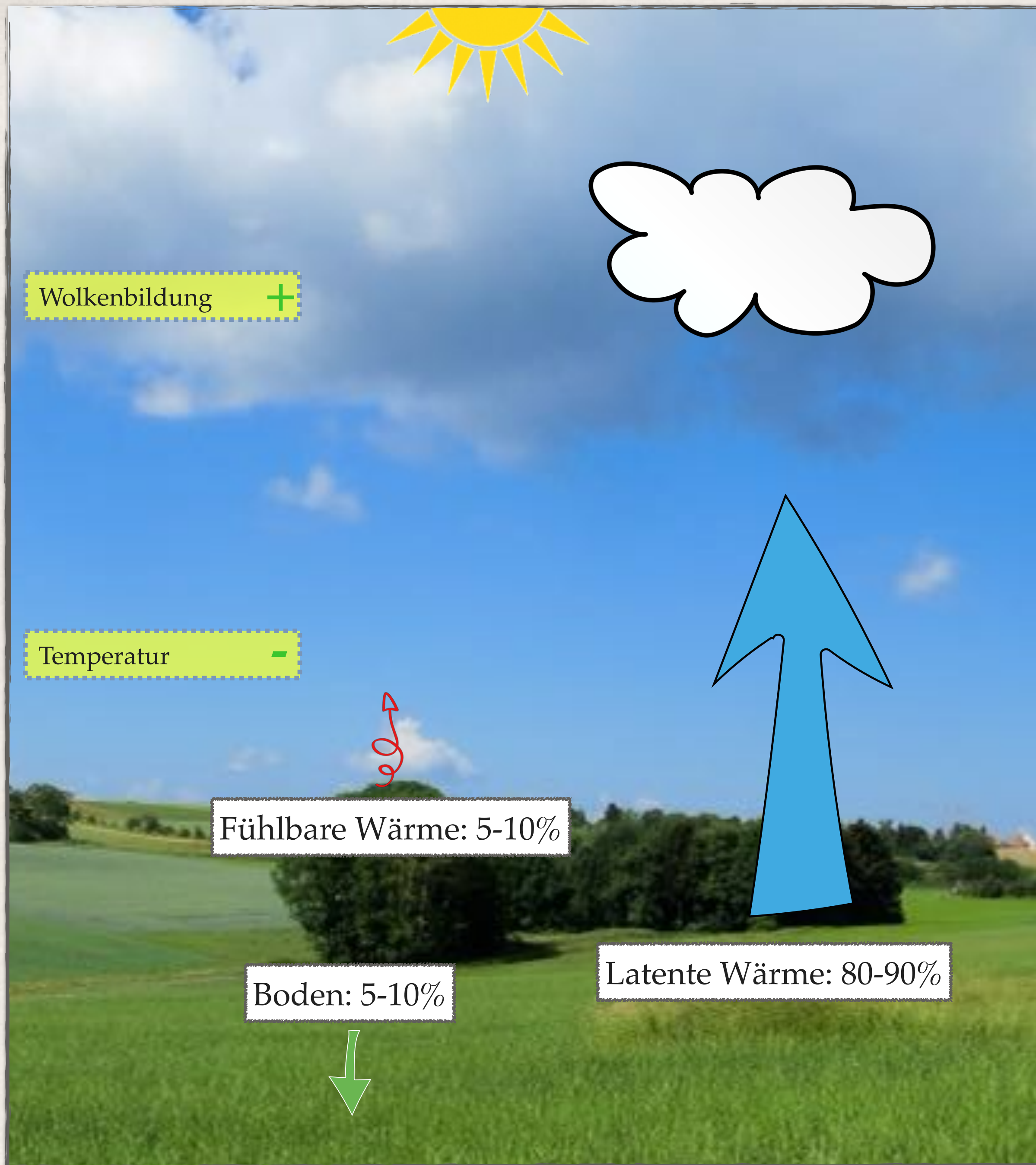


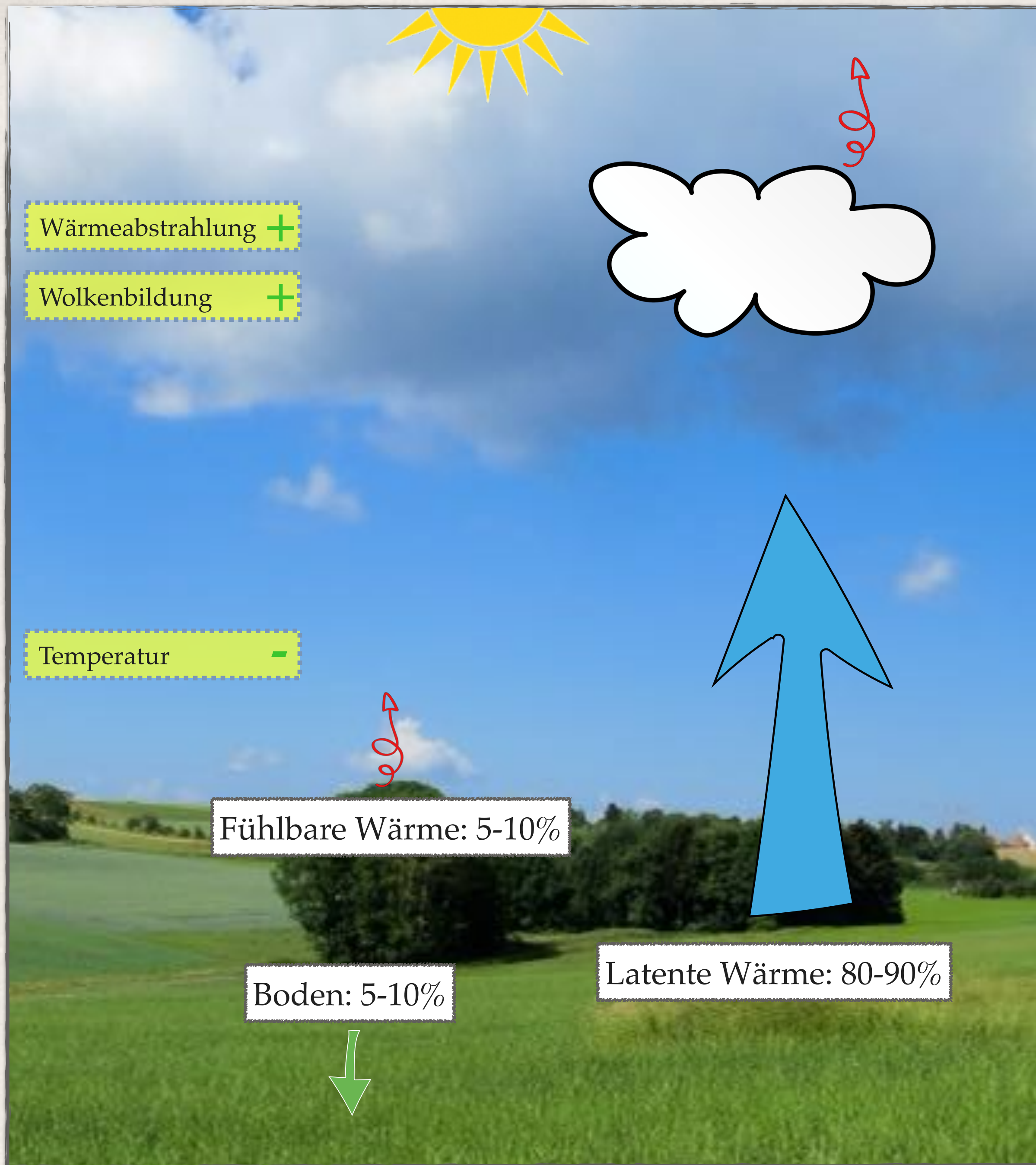


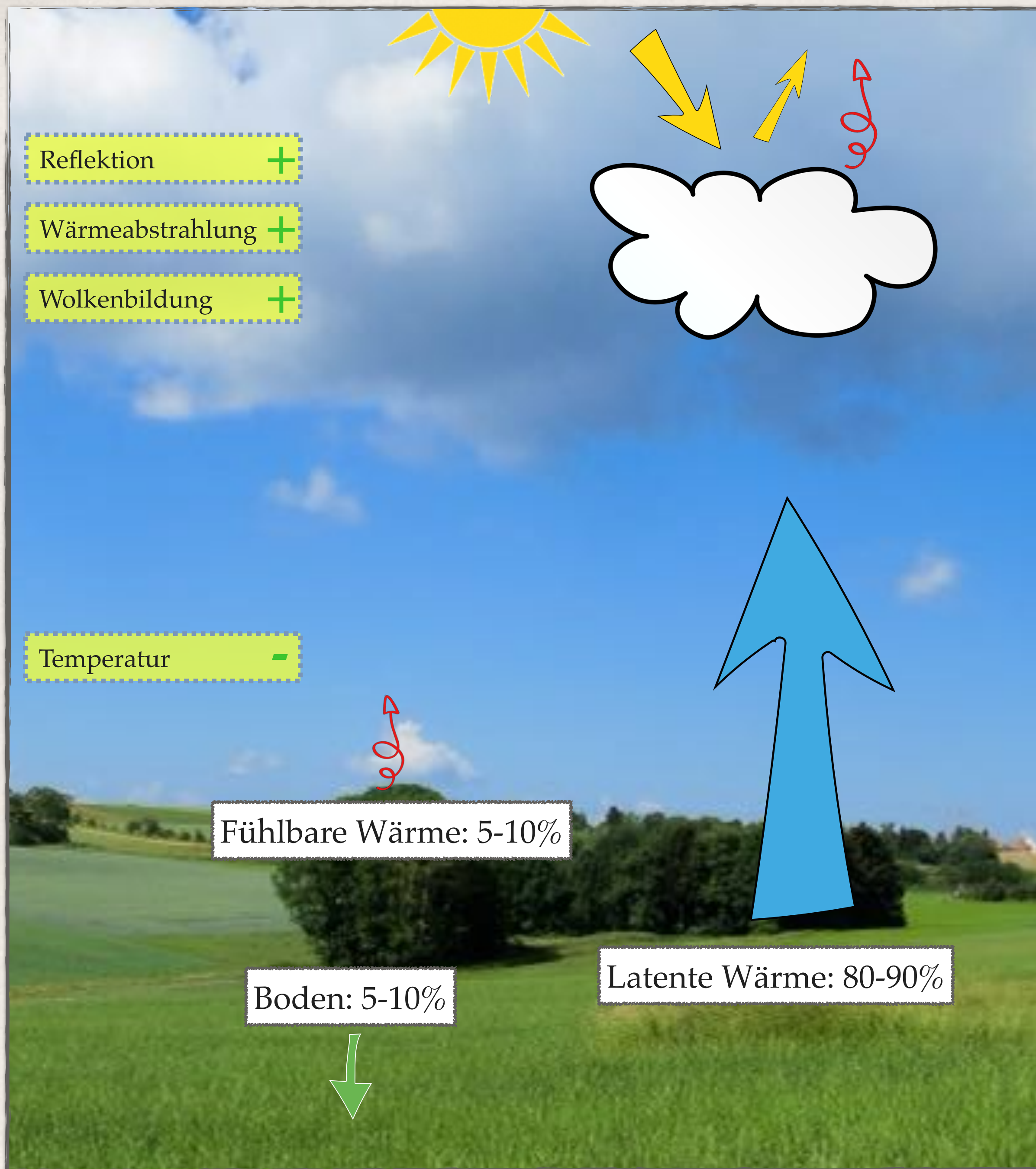


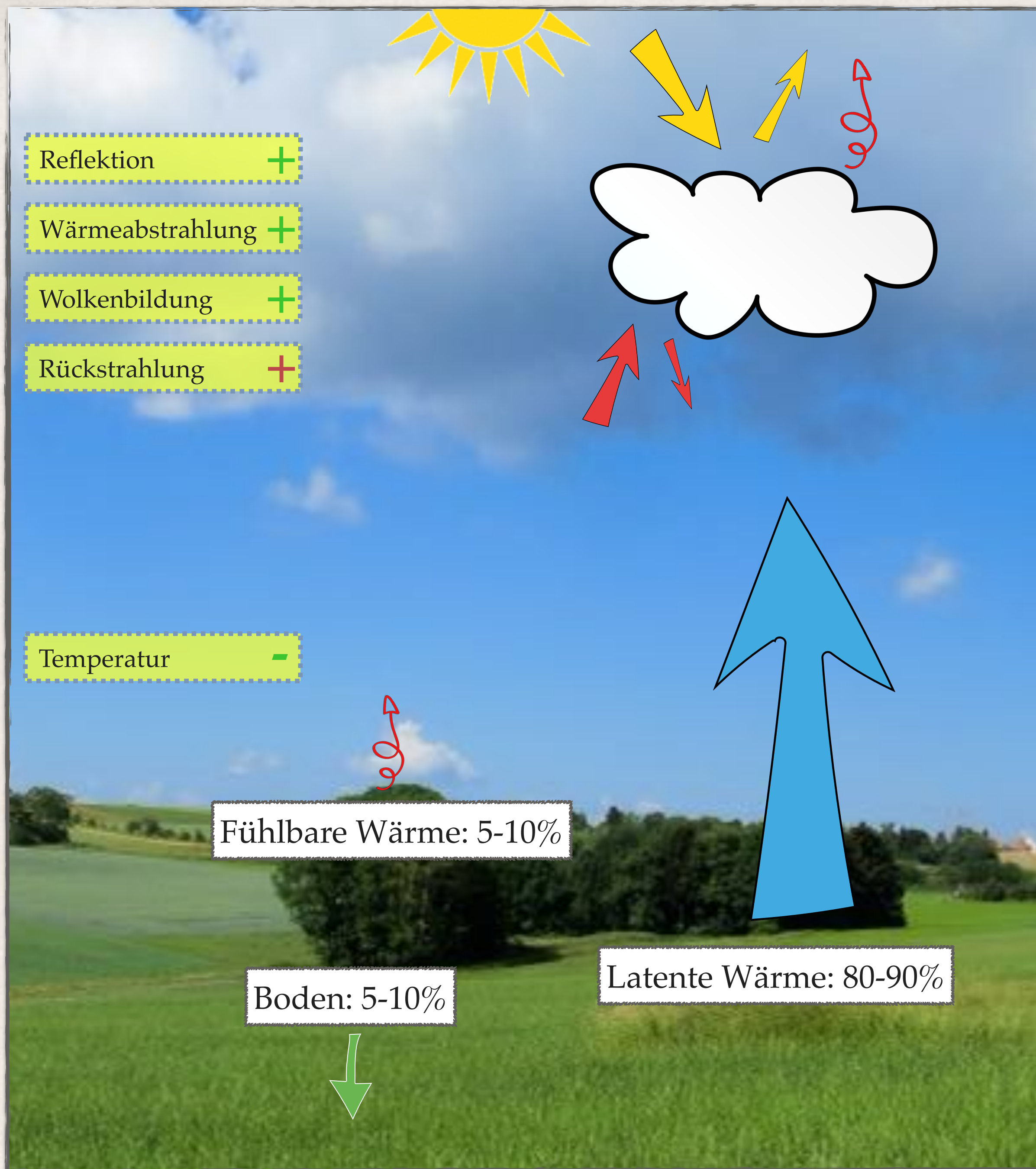


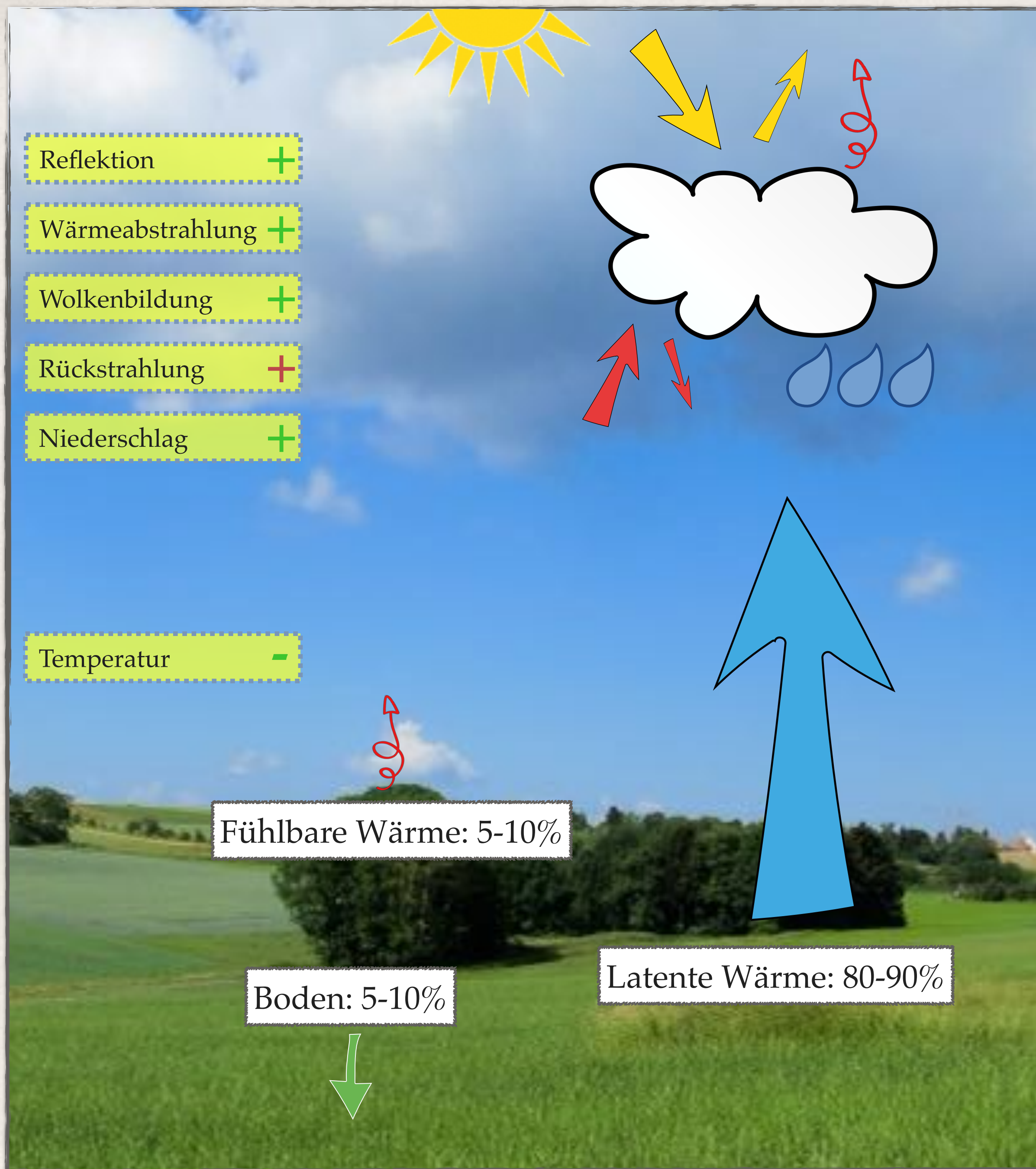


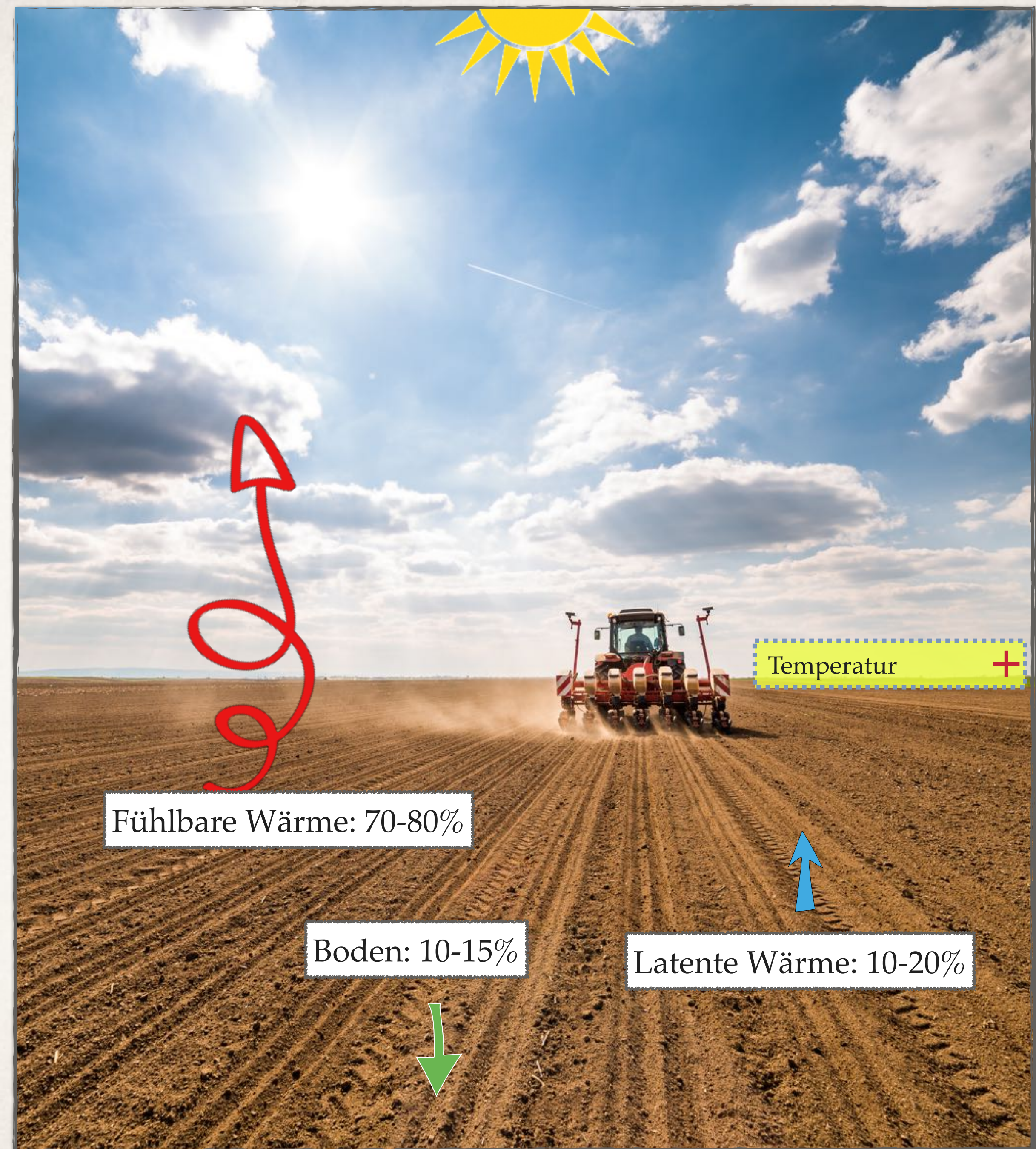
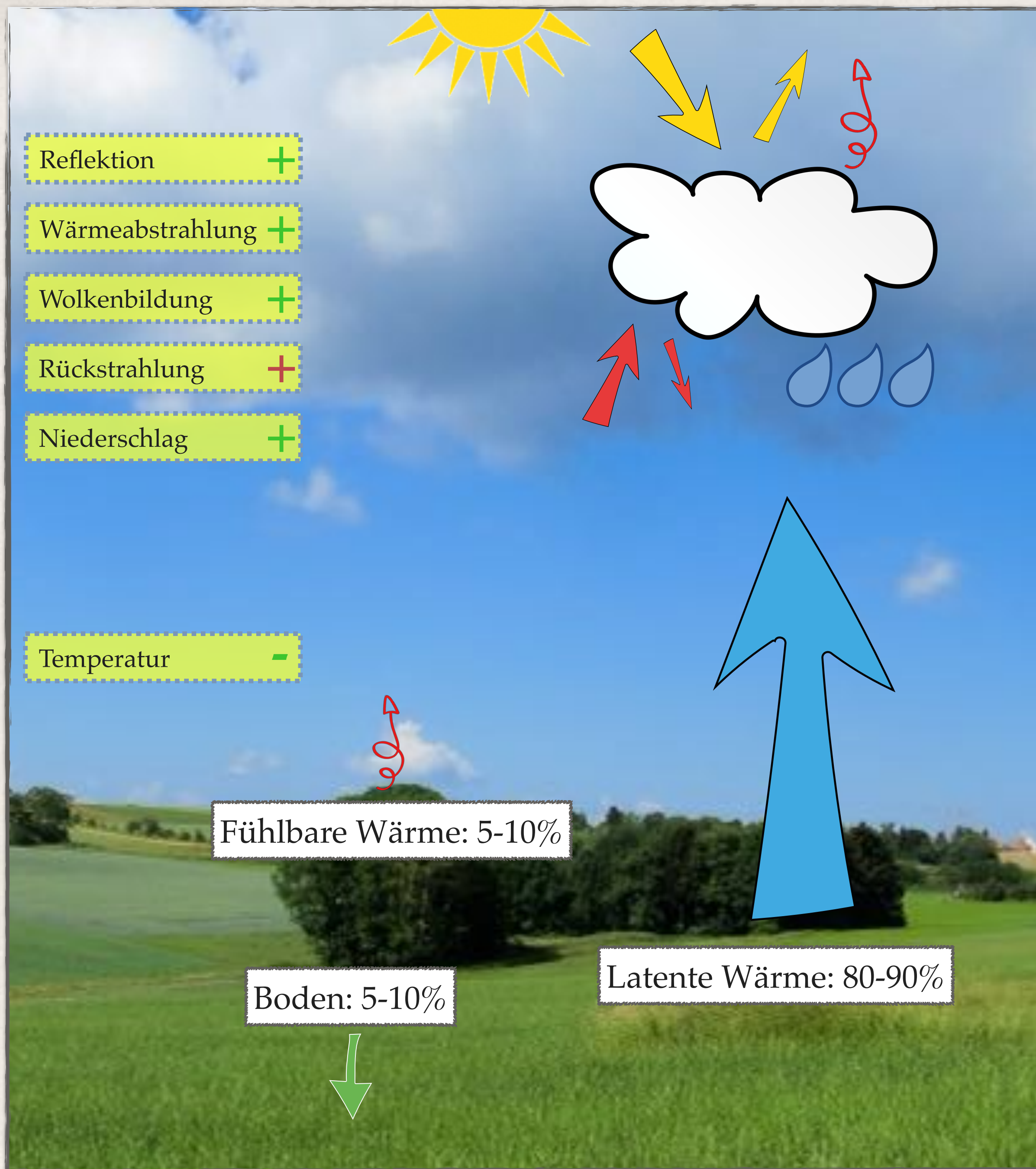


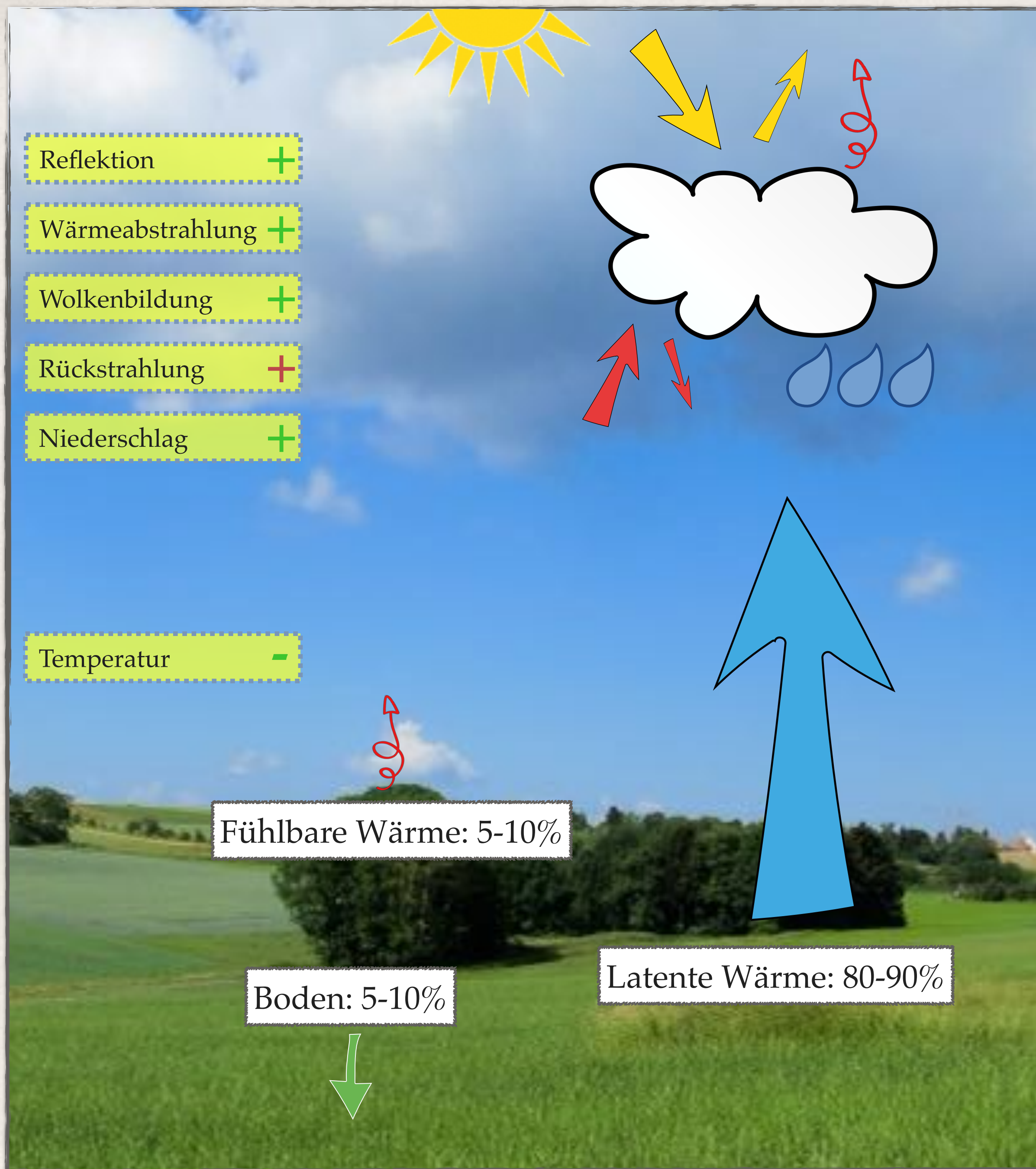


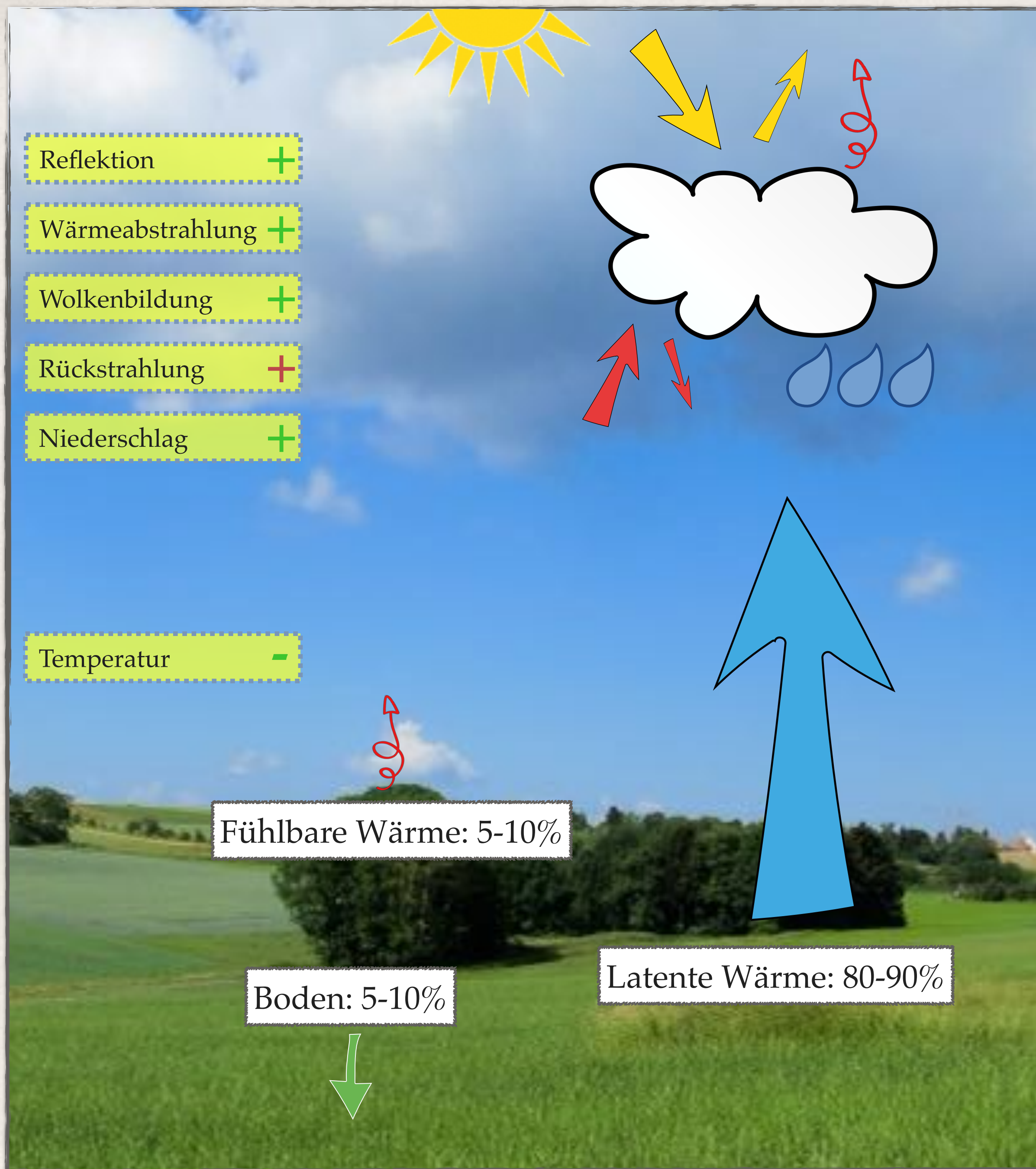


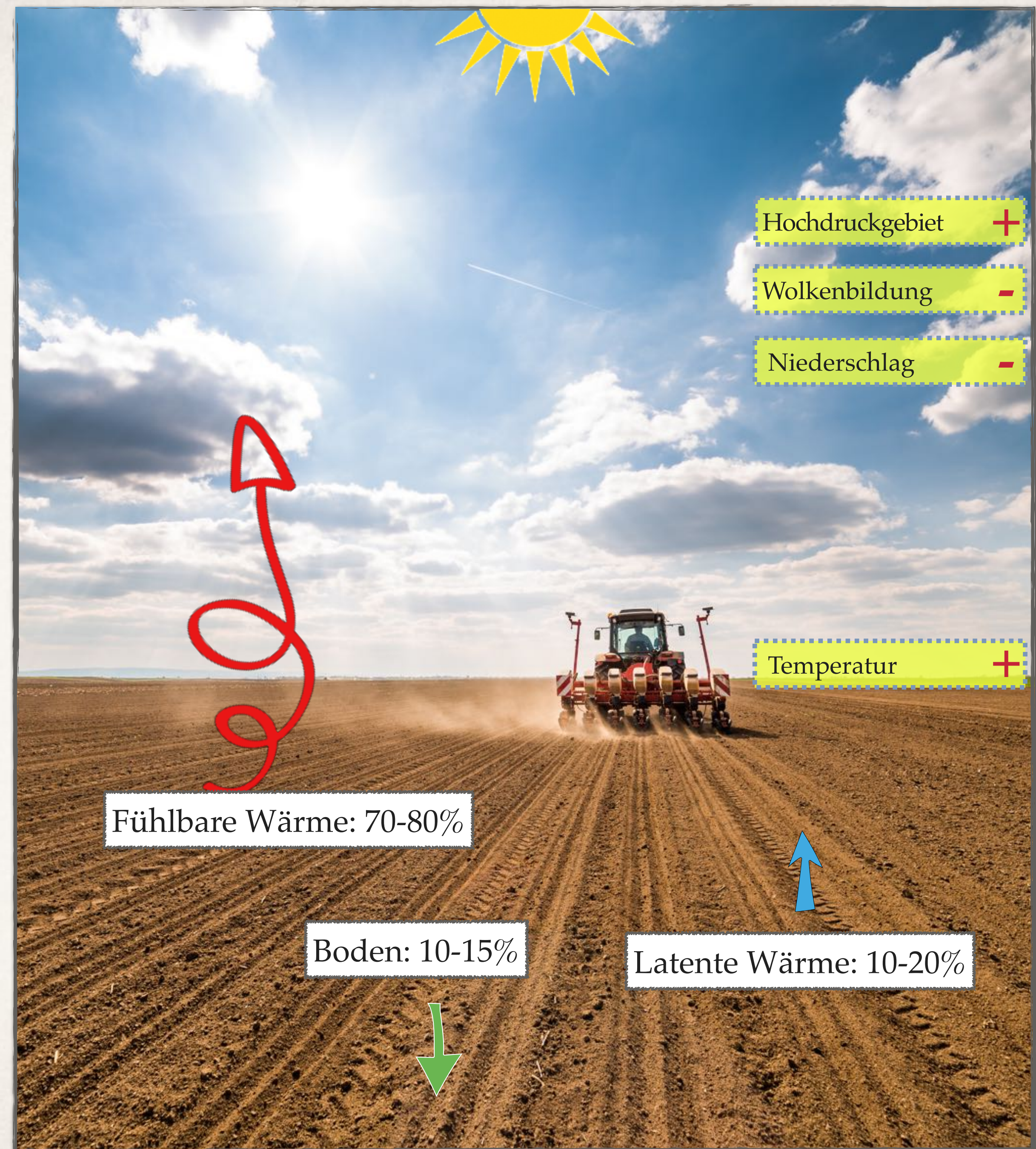
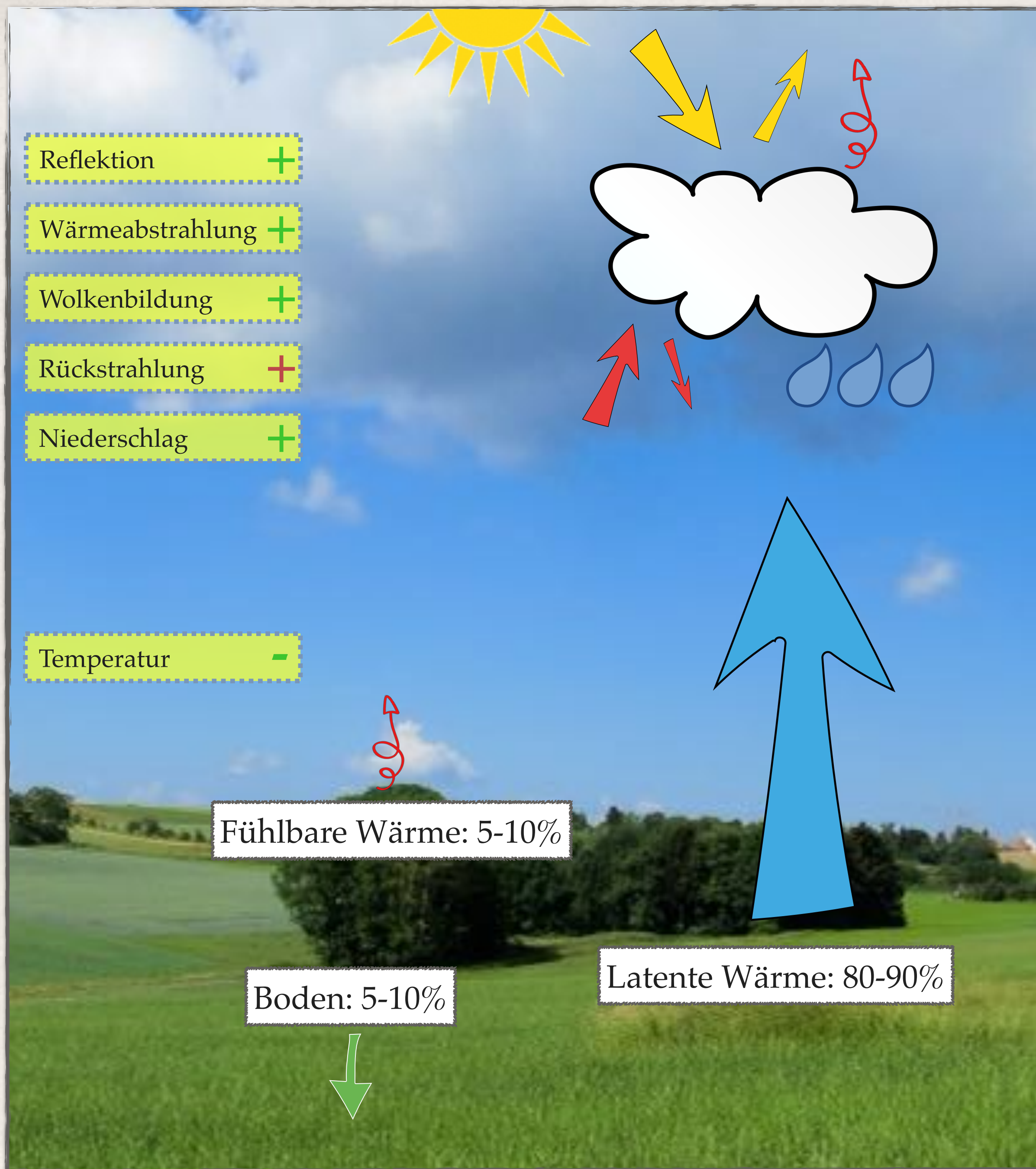














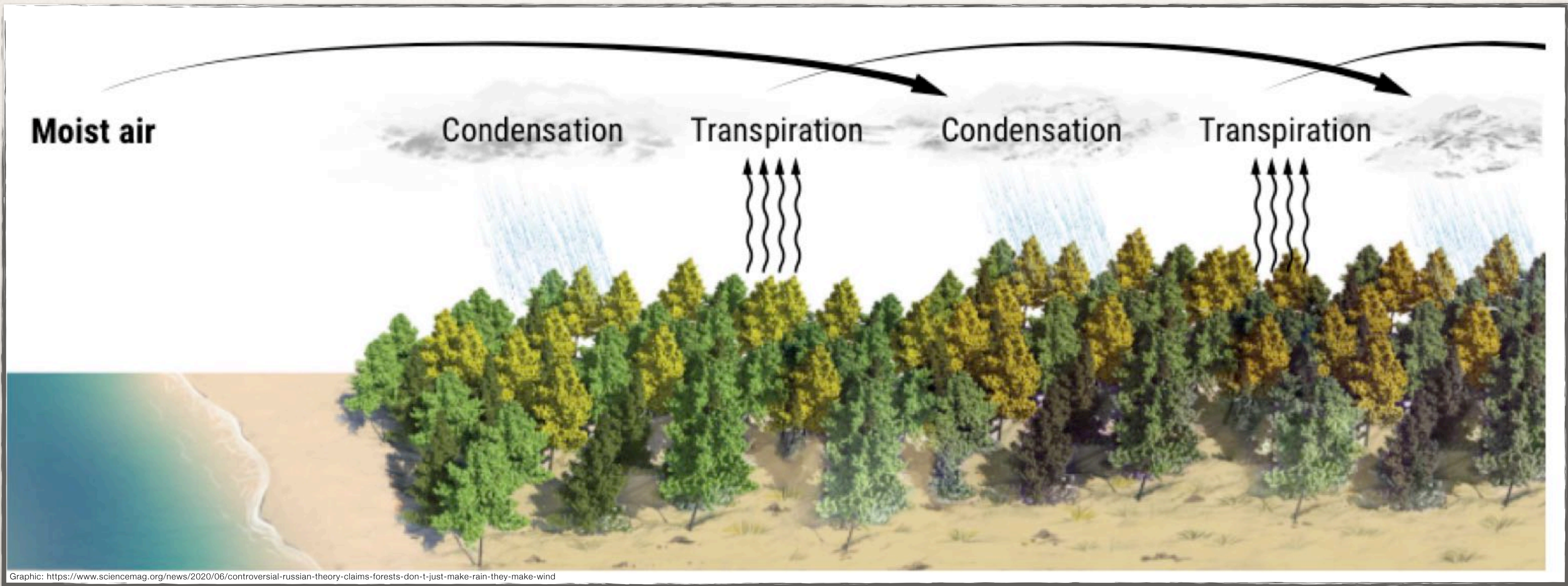
tilled field



grass-clover

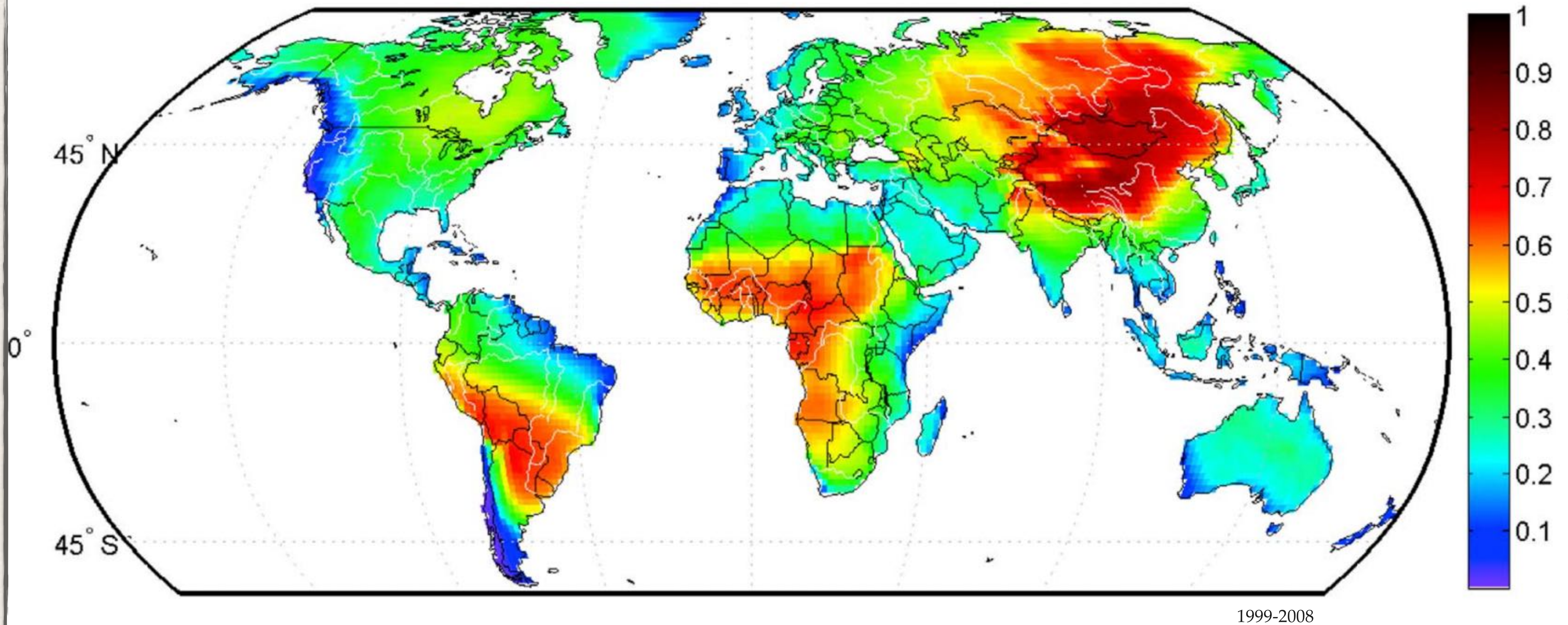


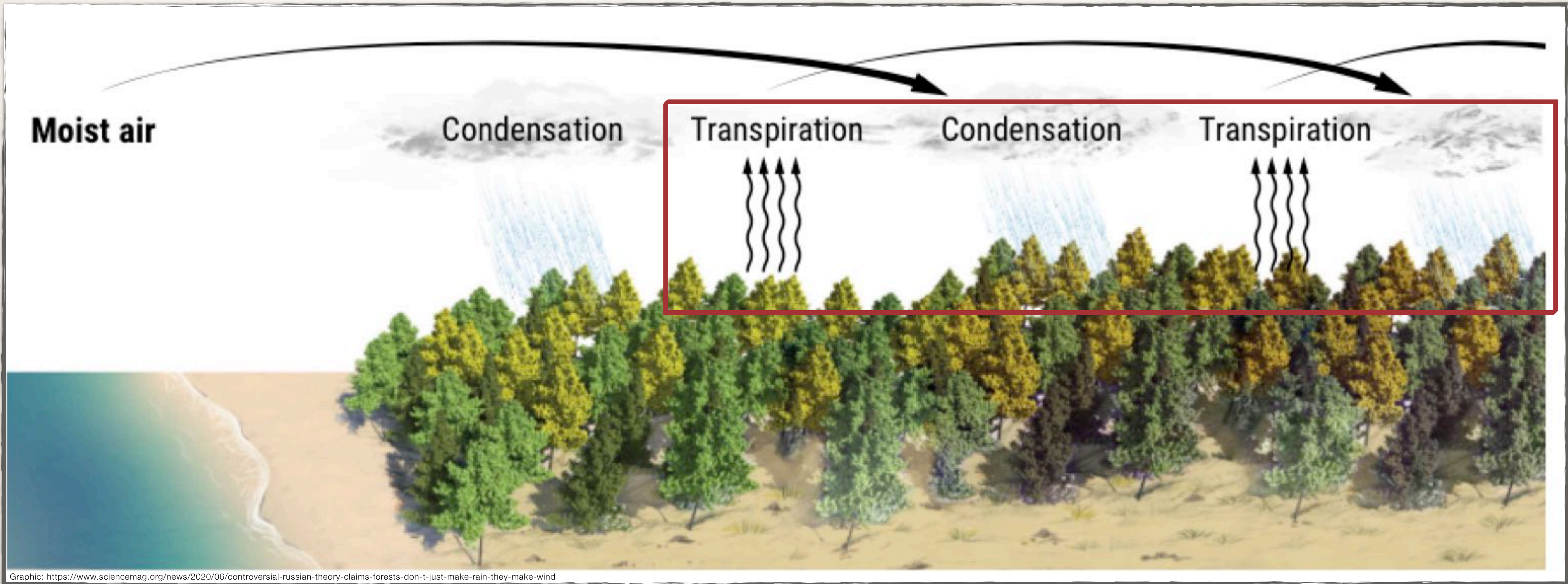




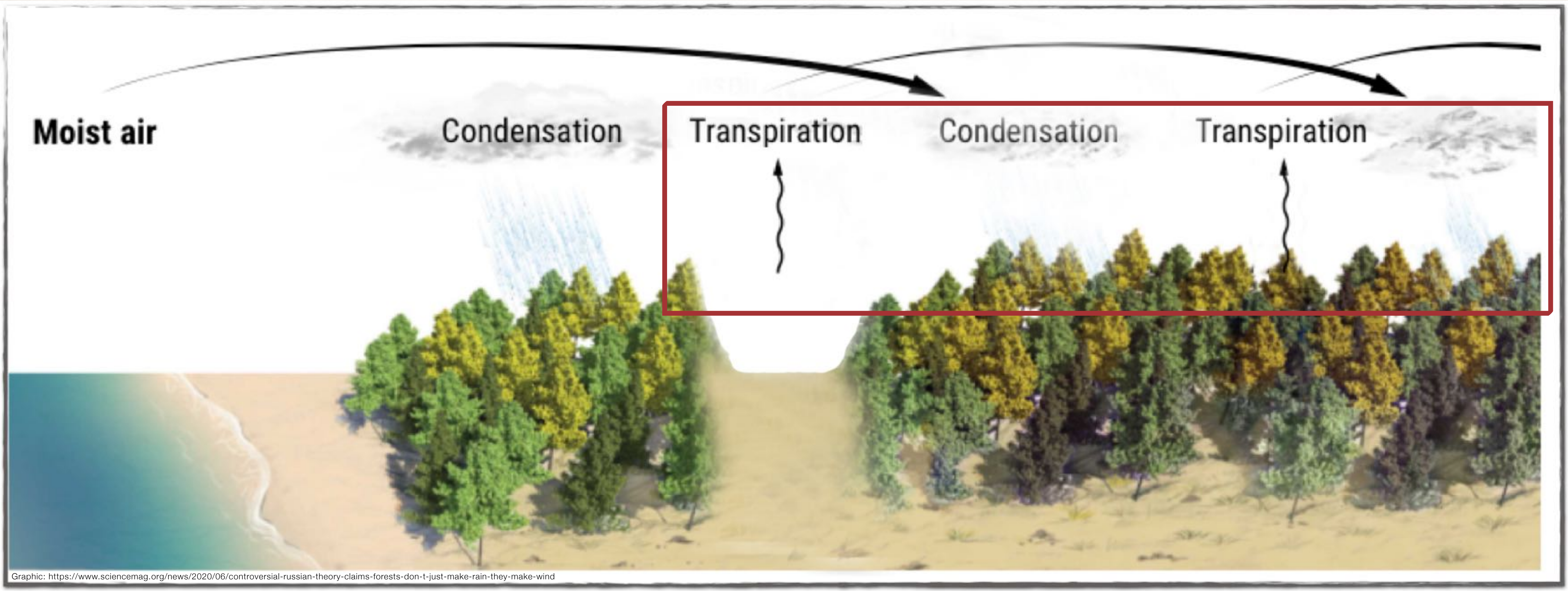
Graphic: <https://www.sciencemag.org/news/2020/06/controversial-russian-theory-claims-forests-don-t-just-make-rain-they-make-wind>

Niederschlags-Recycling-Verhältnis





Graphic: <https://www.sciencemag.org/news/2020/06/controversial-russian-theory-claims-forests-don-t-just-make-rain-they-make-wind>

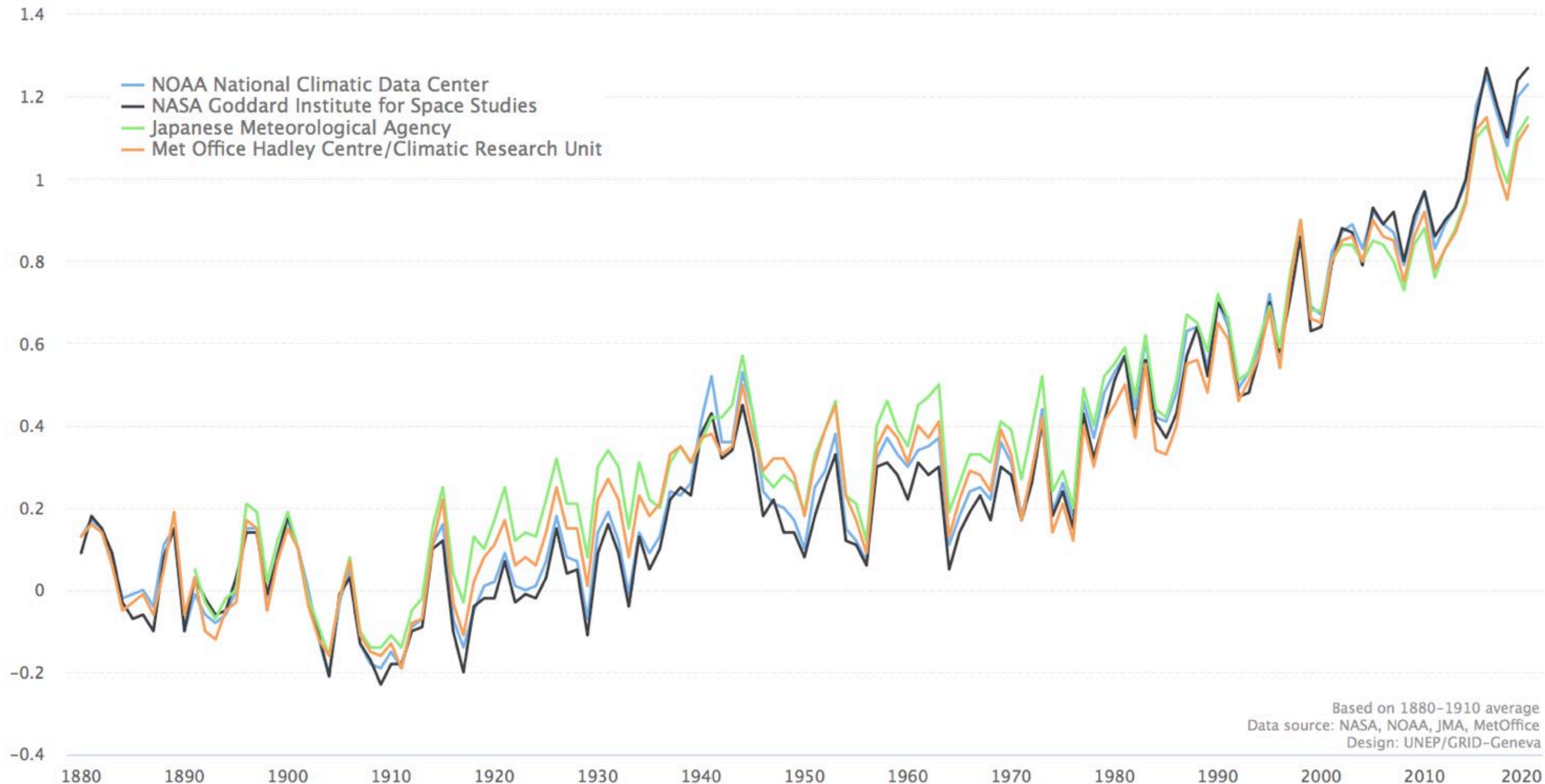


Global Surface Temperature Changes since Pre-industrial Era



Temperature
Anomaly (°C)

Four independent data sources show nearly identical long-term warming trends

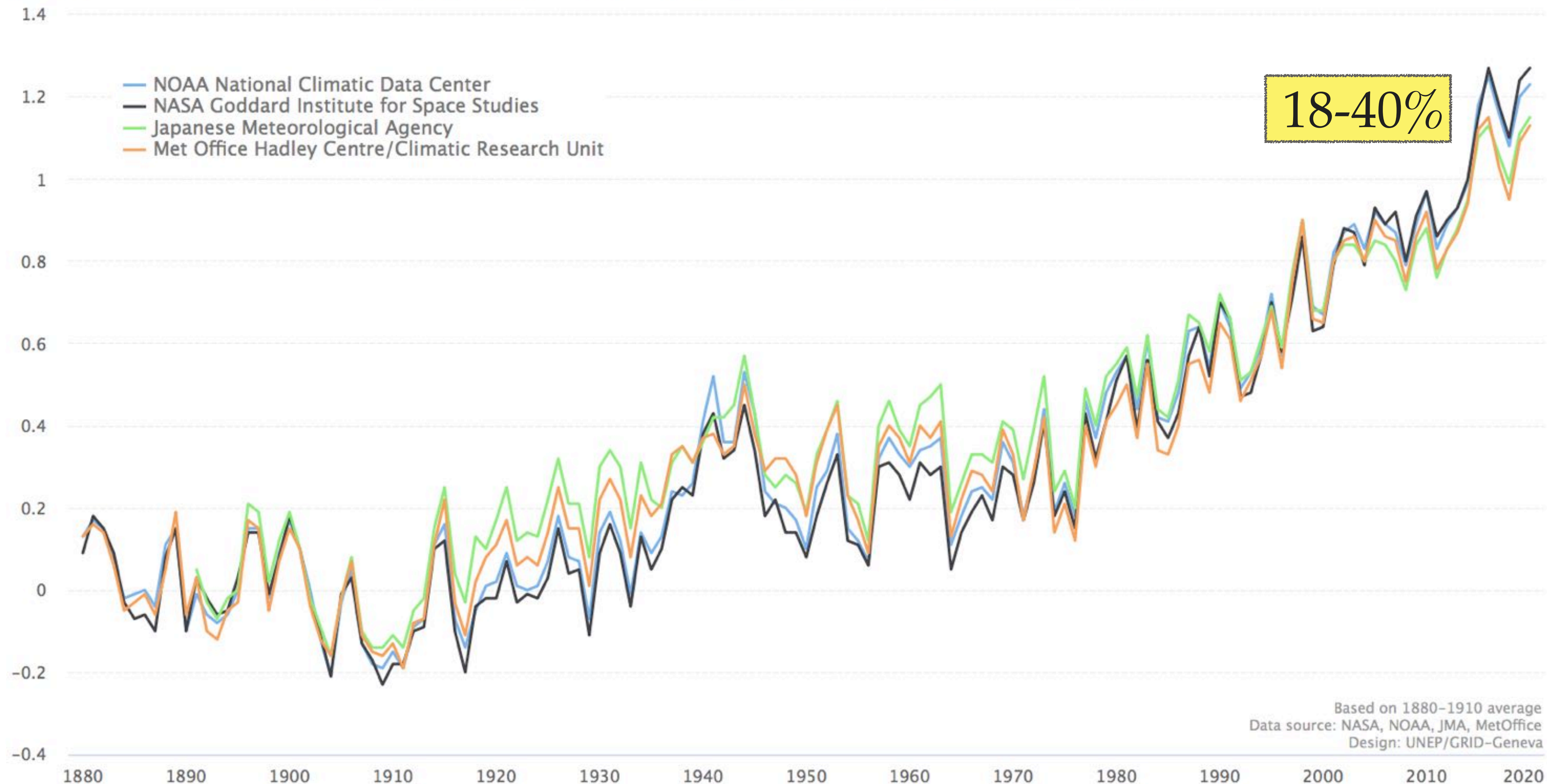


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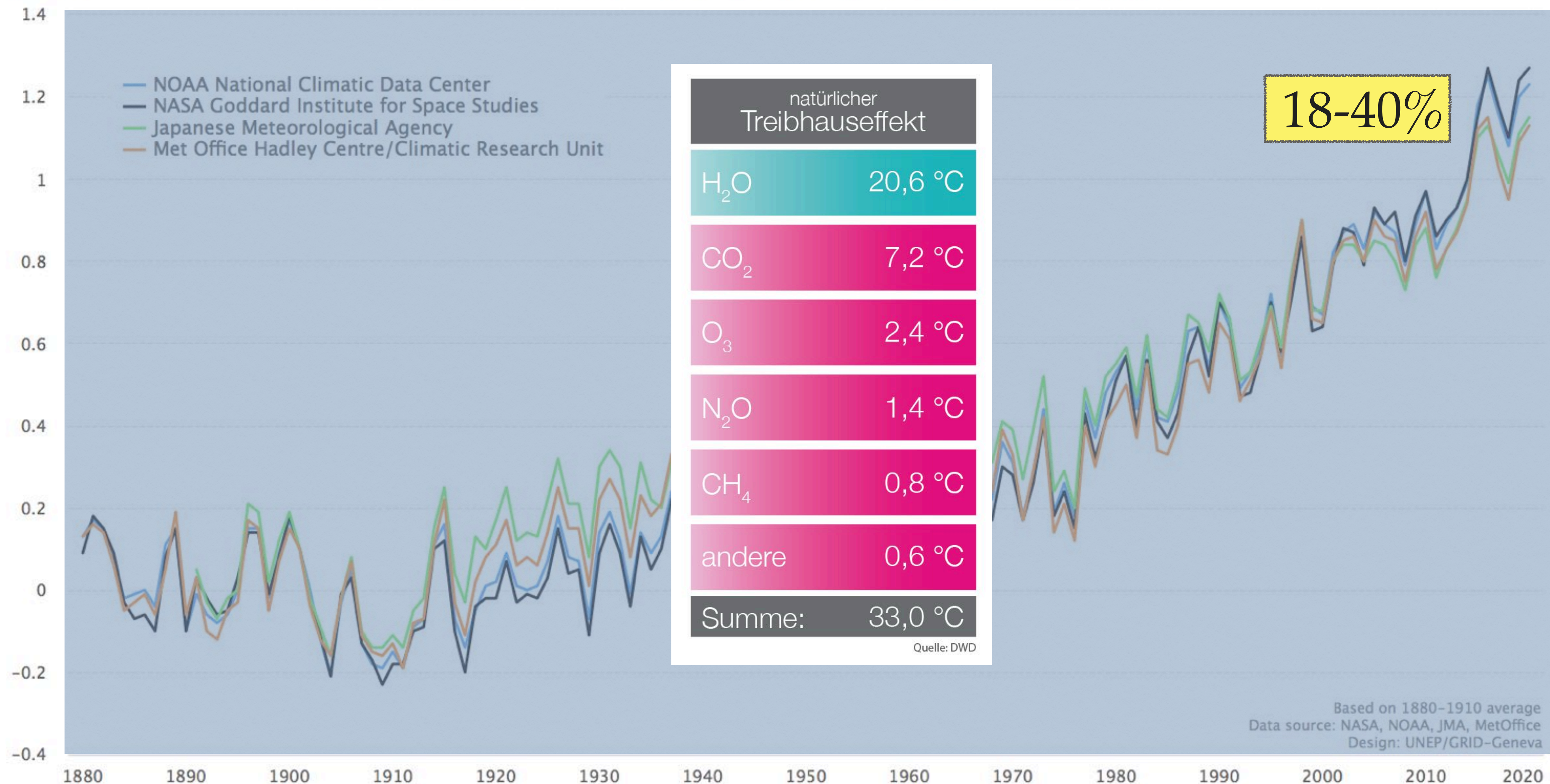


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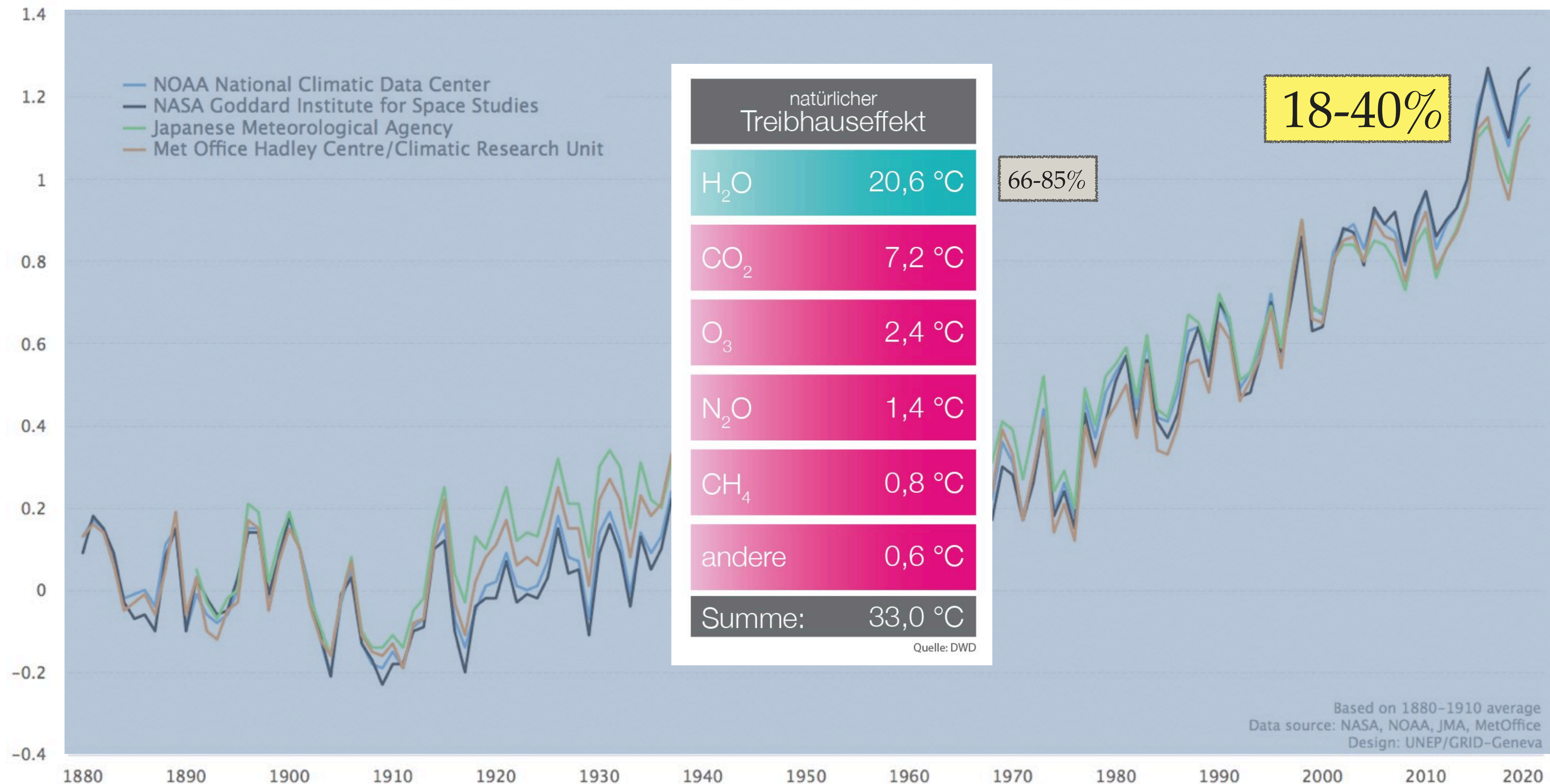


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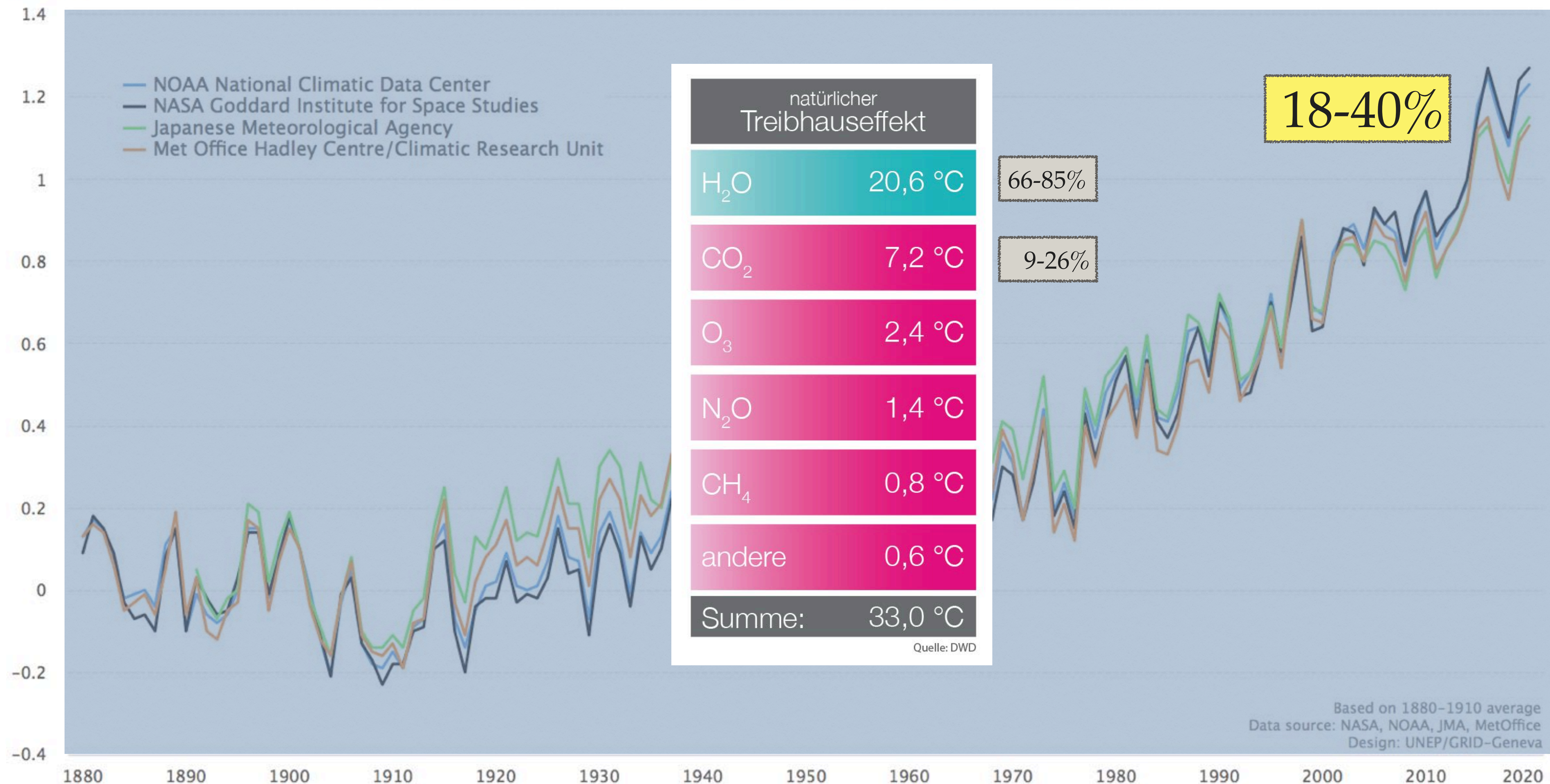


Global Surface Temperature Changes since Pre-industrial Era



Temperature
Anomaly (°C)

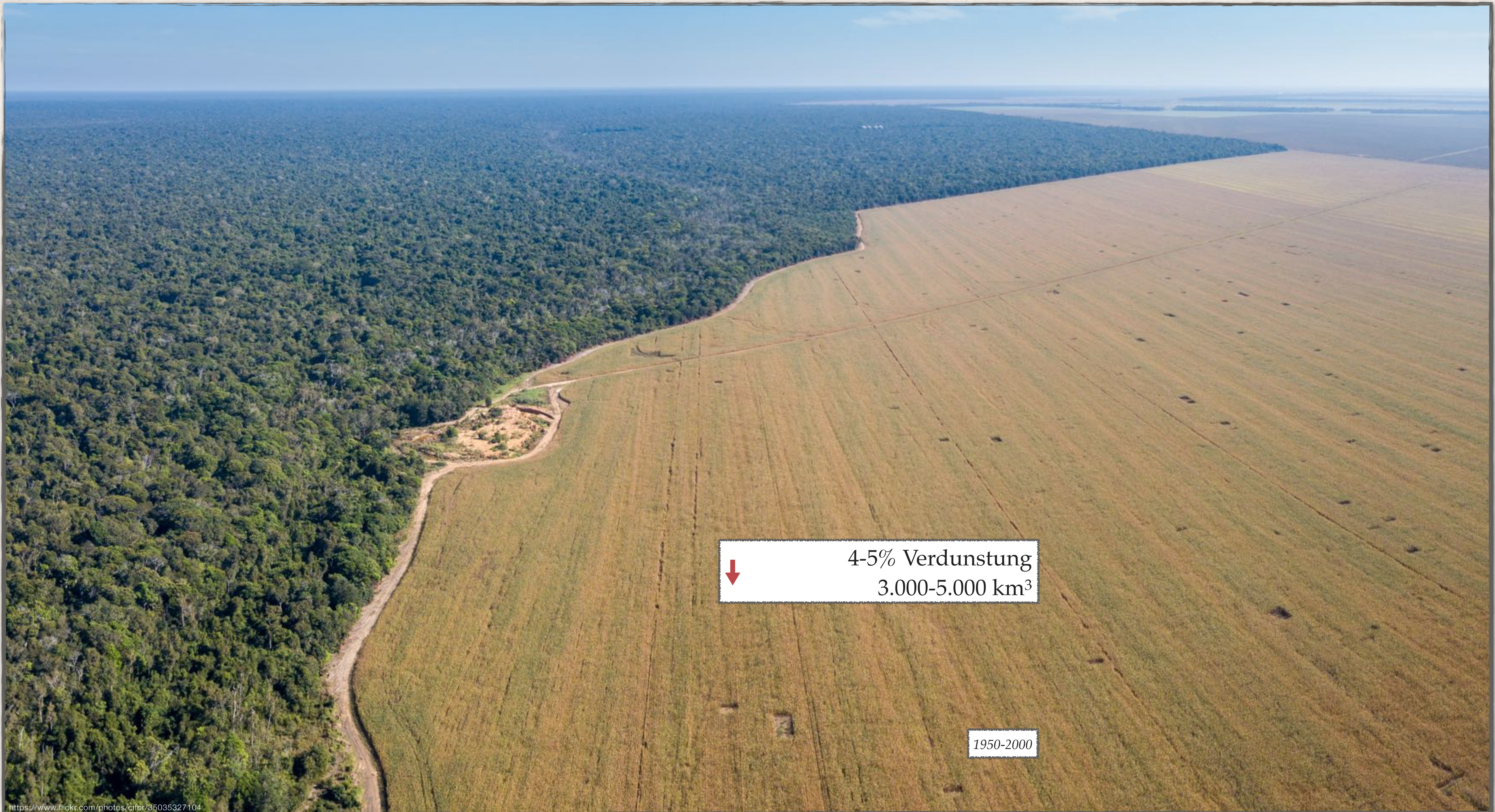
Four independent data sources show nearly identical long-term warming trends





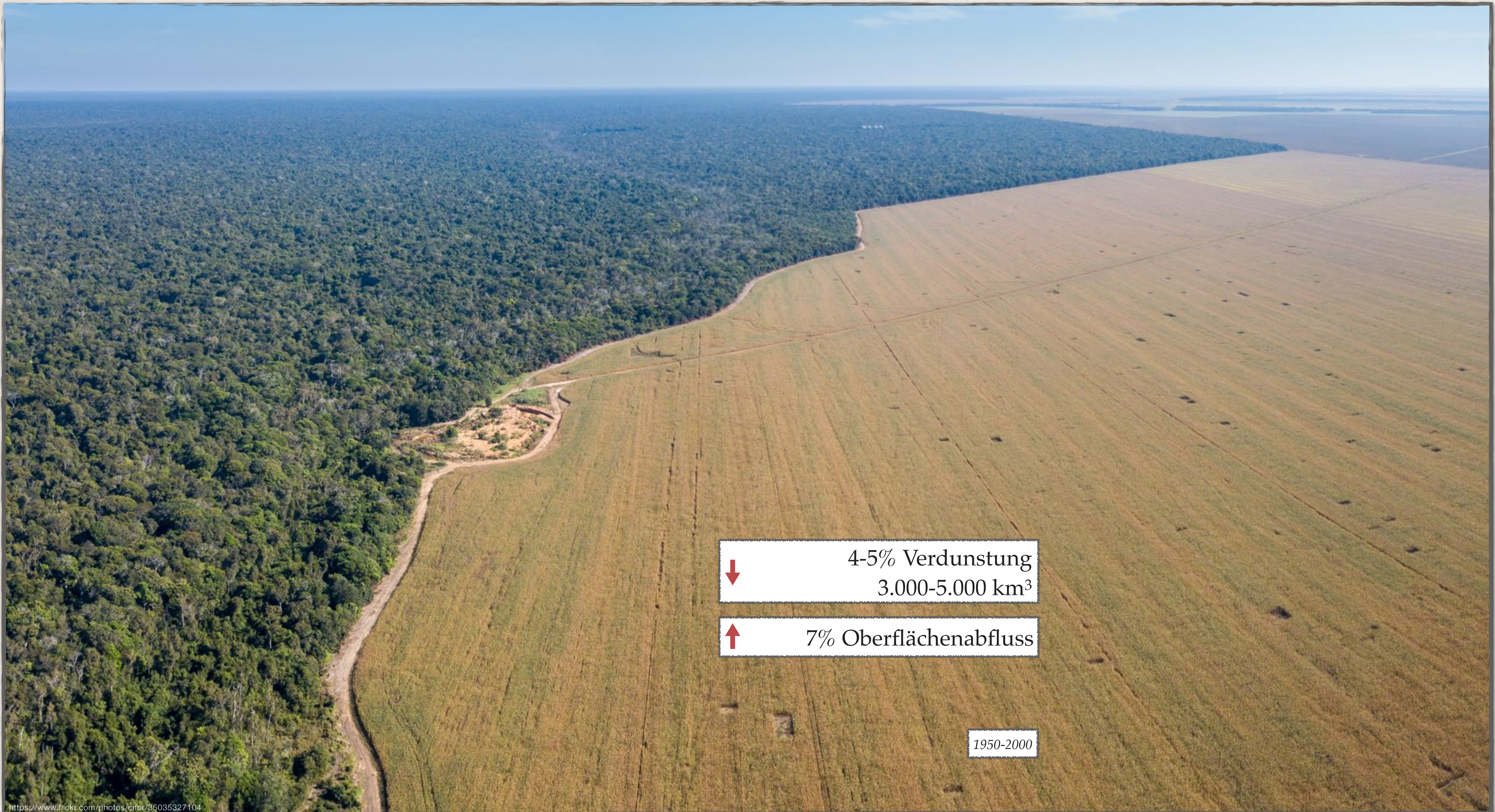


<https://www.flickr.com/photos/cifor/35035327104>



4-5% Verdunstung
3.000-5.000 km³

1950-2000



4-5% Verdunstung
3.000-5.000 km³



7% Oberflächenabfluss

1950-2000



4-5% Verdunstung
3.000-5.000 km³

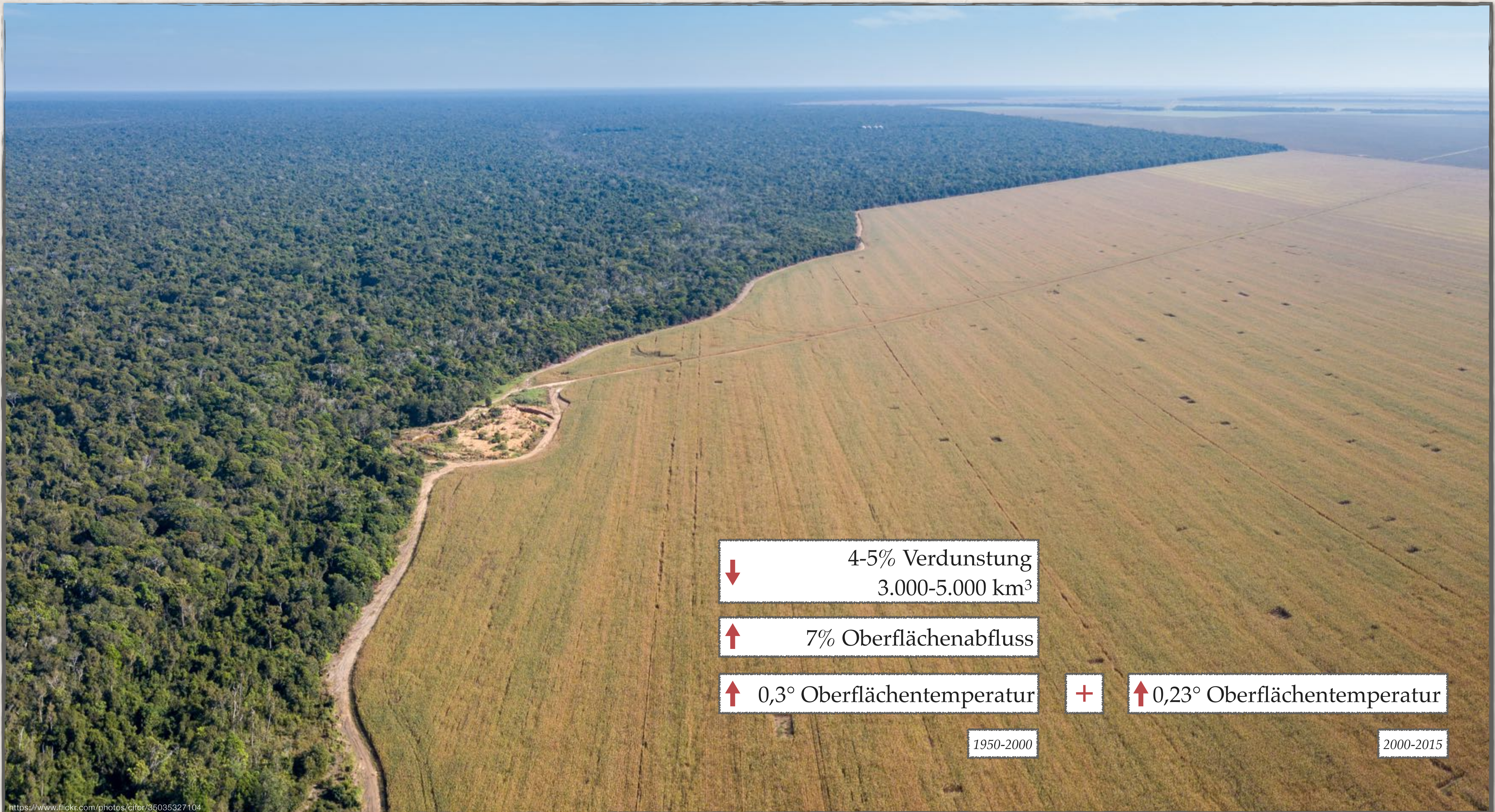


7% Oberflächenabfluss



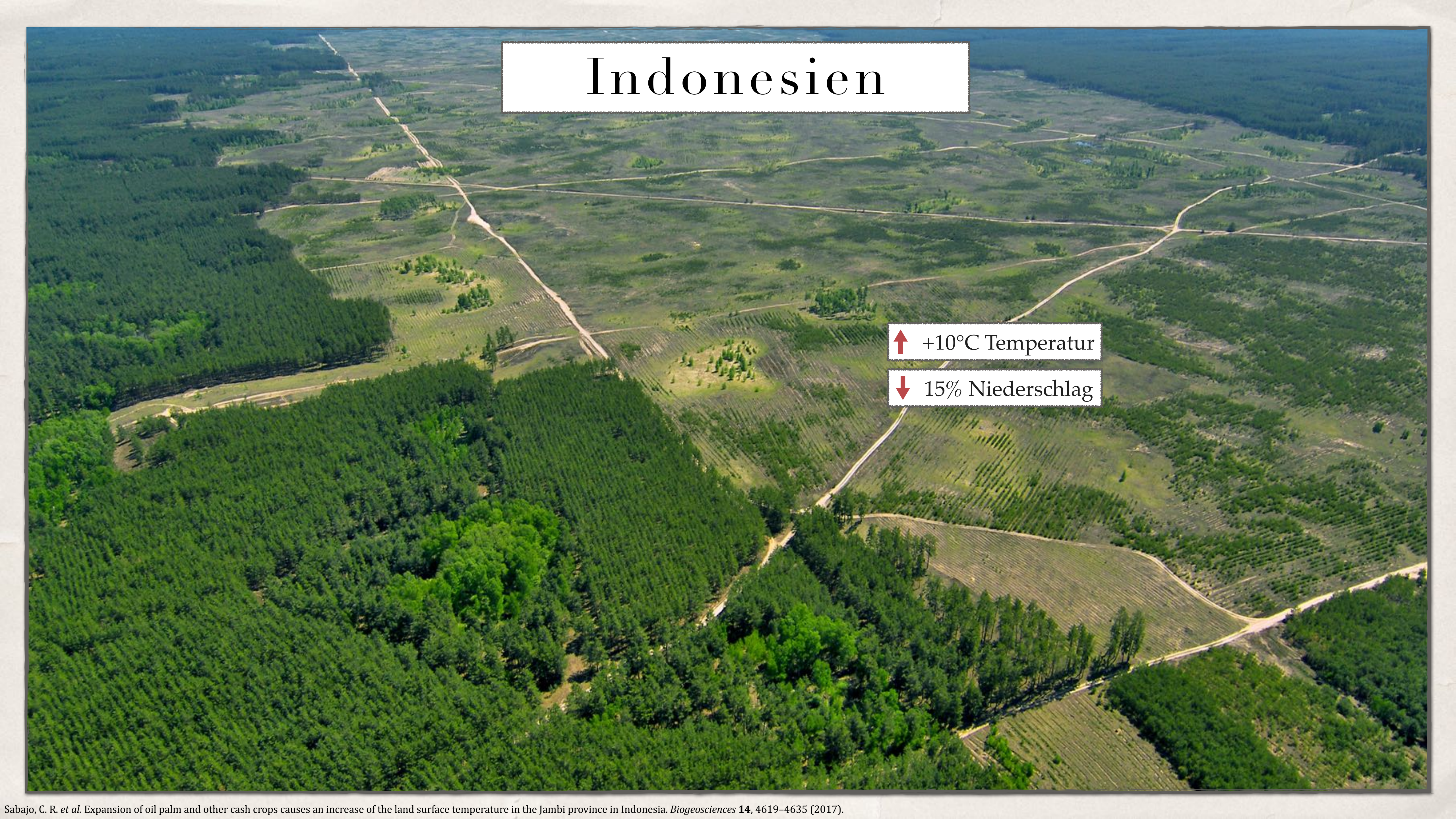
0,3° Oberflächentemperatur

1950-2000



<https://www.flickr.com/photos/cifor/35035327104>

Indonesien



↑ +10°C Temperatur

↓ 15% Niederschlag

Indien & China



20% Niederschlag

1700-1850



[https://commons.wikimedia.org/wiki/File:\(1\)_Agriculture_and_rural_farms_of_India.jpg](https://commons.wikimedia.org/wiki/File:(1)_Agriculture_and_rural_farms_of_India.jpg)

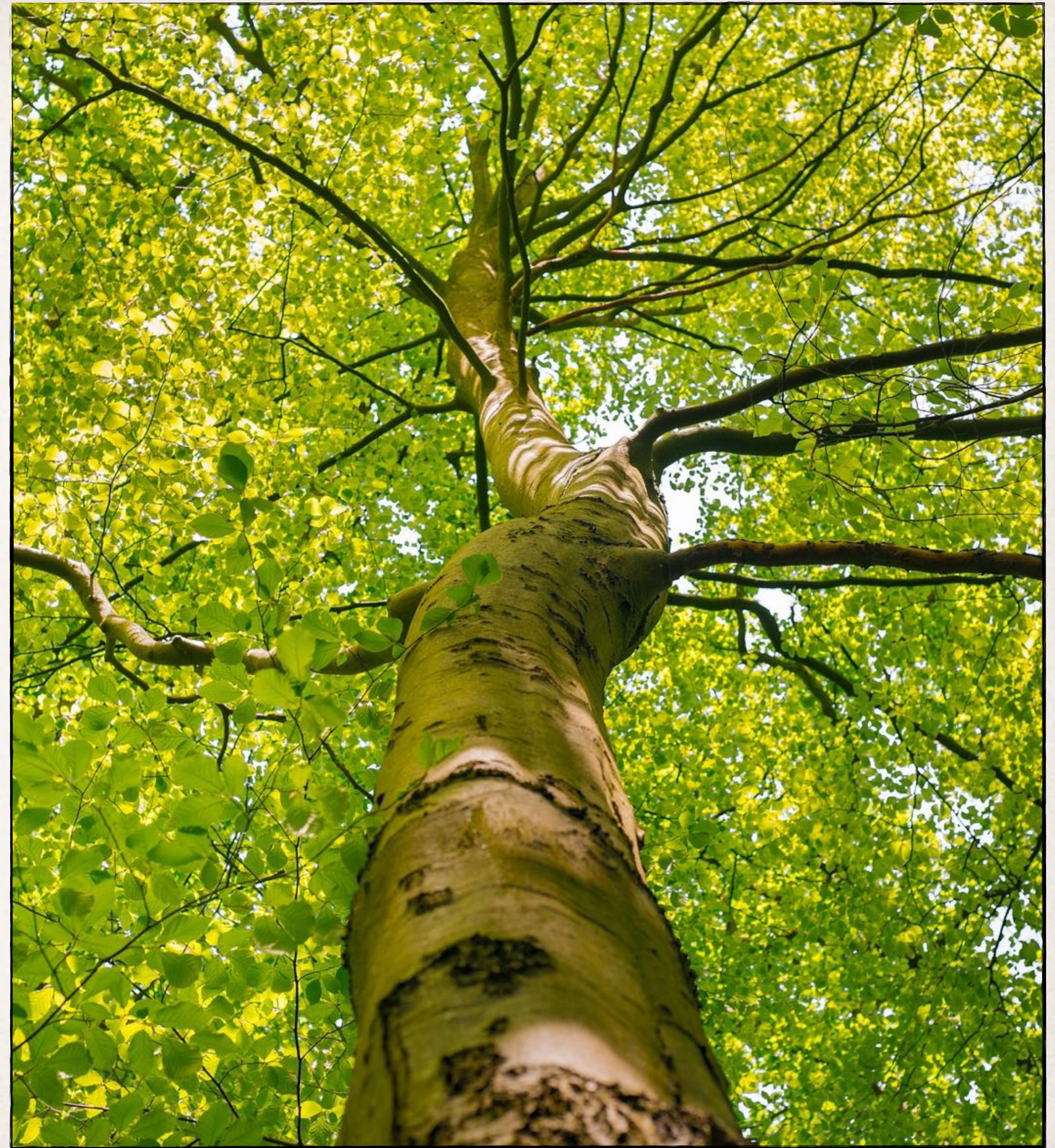
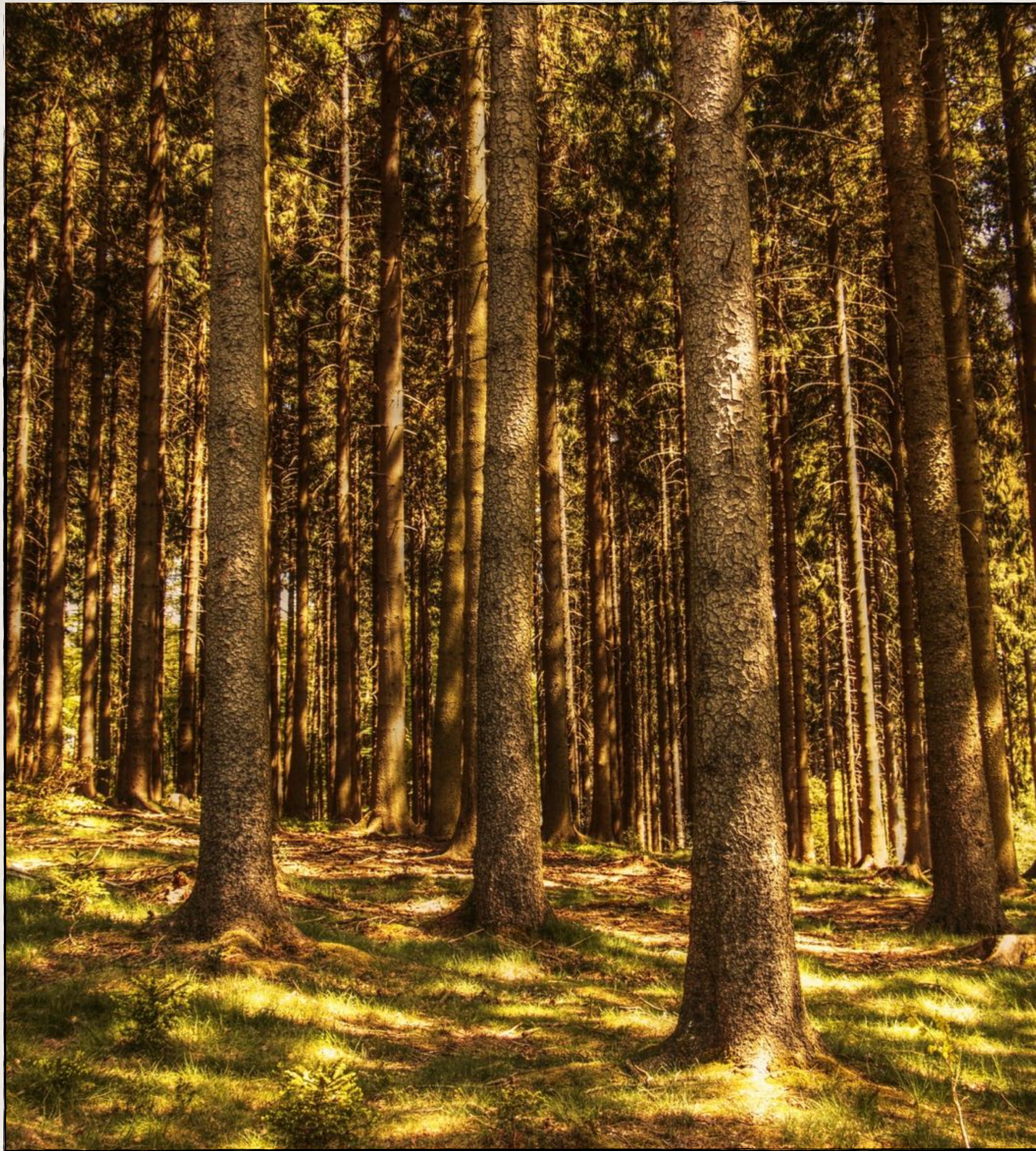
Amazonas - Nordwesten USA

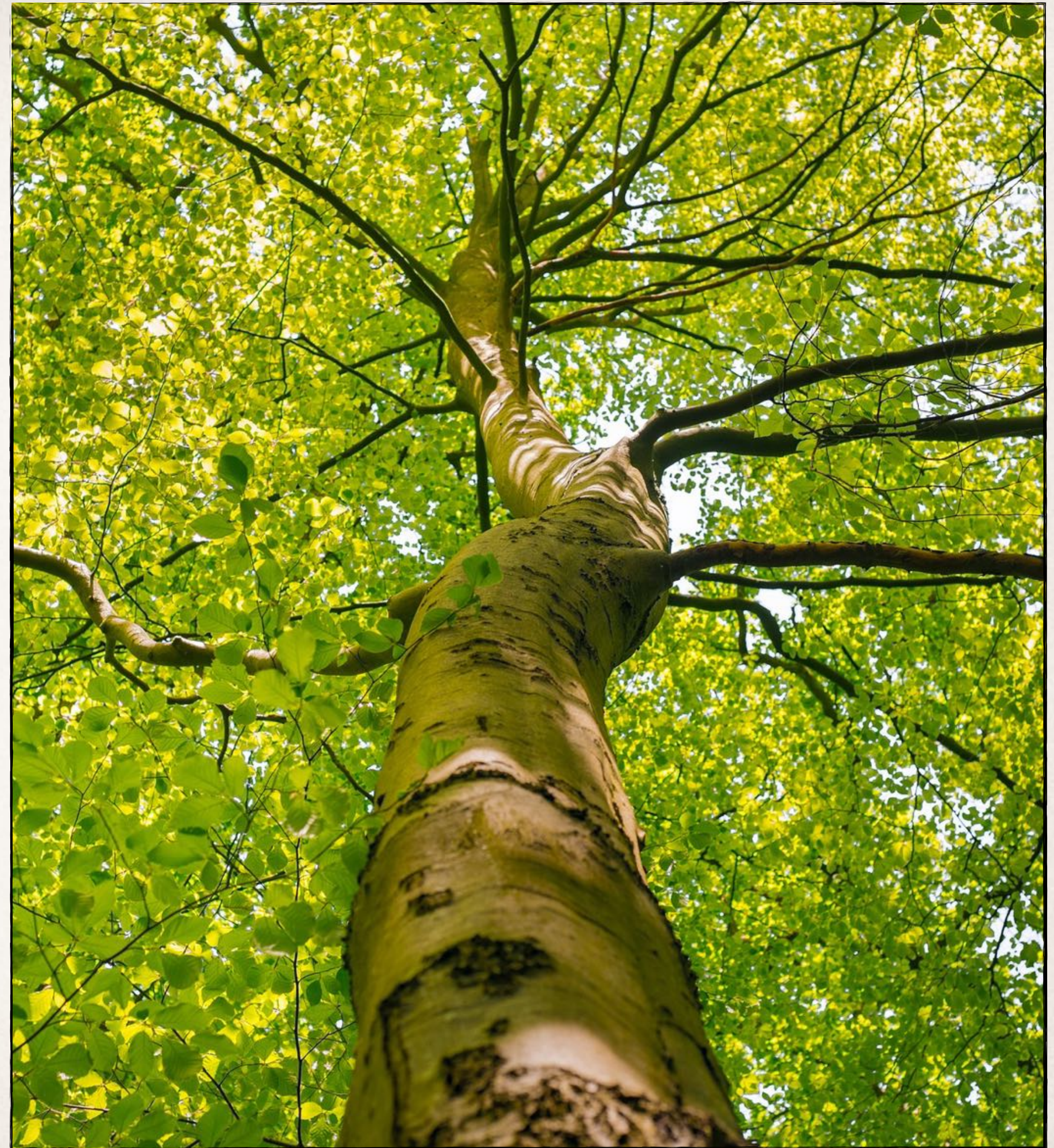
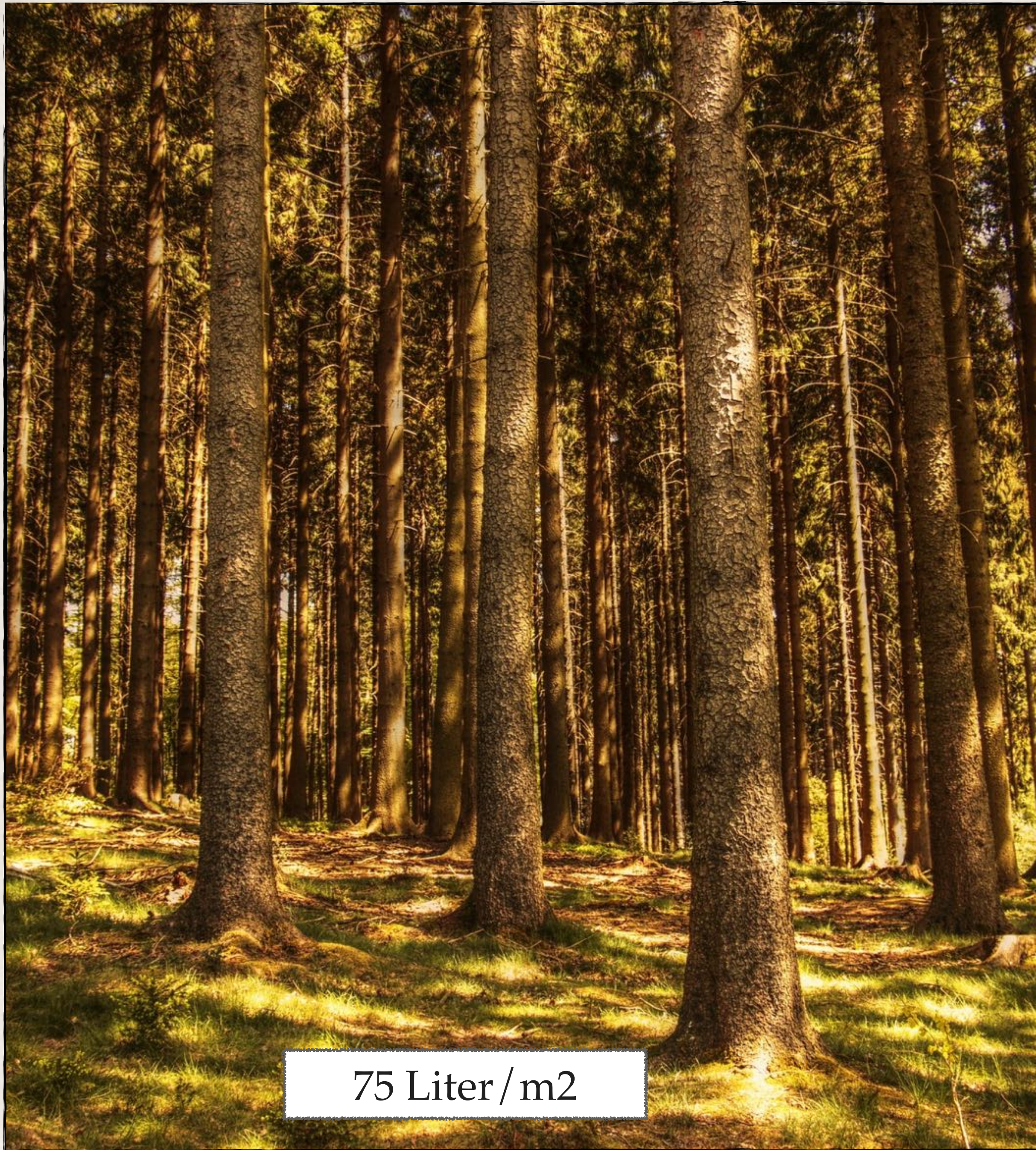
↓ 10-20% Niederschlag

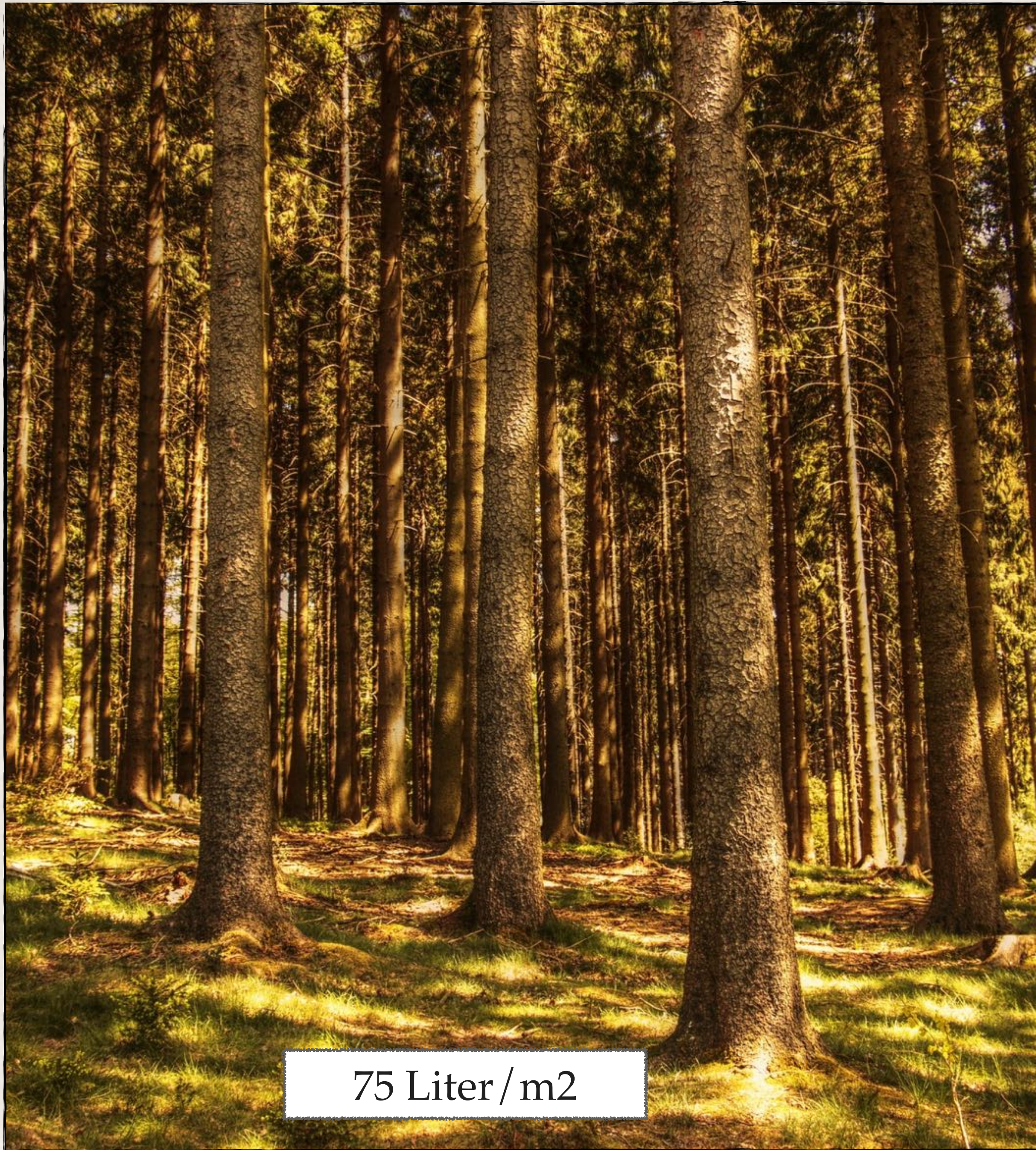
↓ bis 50% Schneehöhe



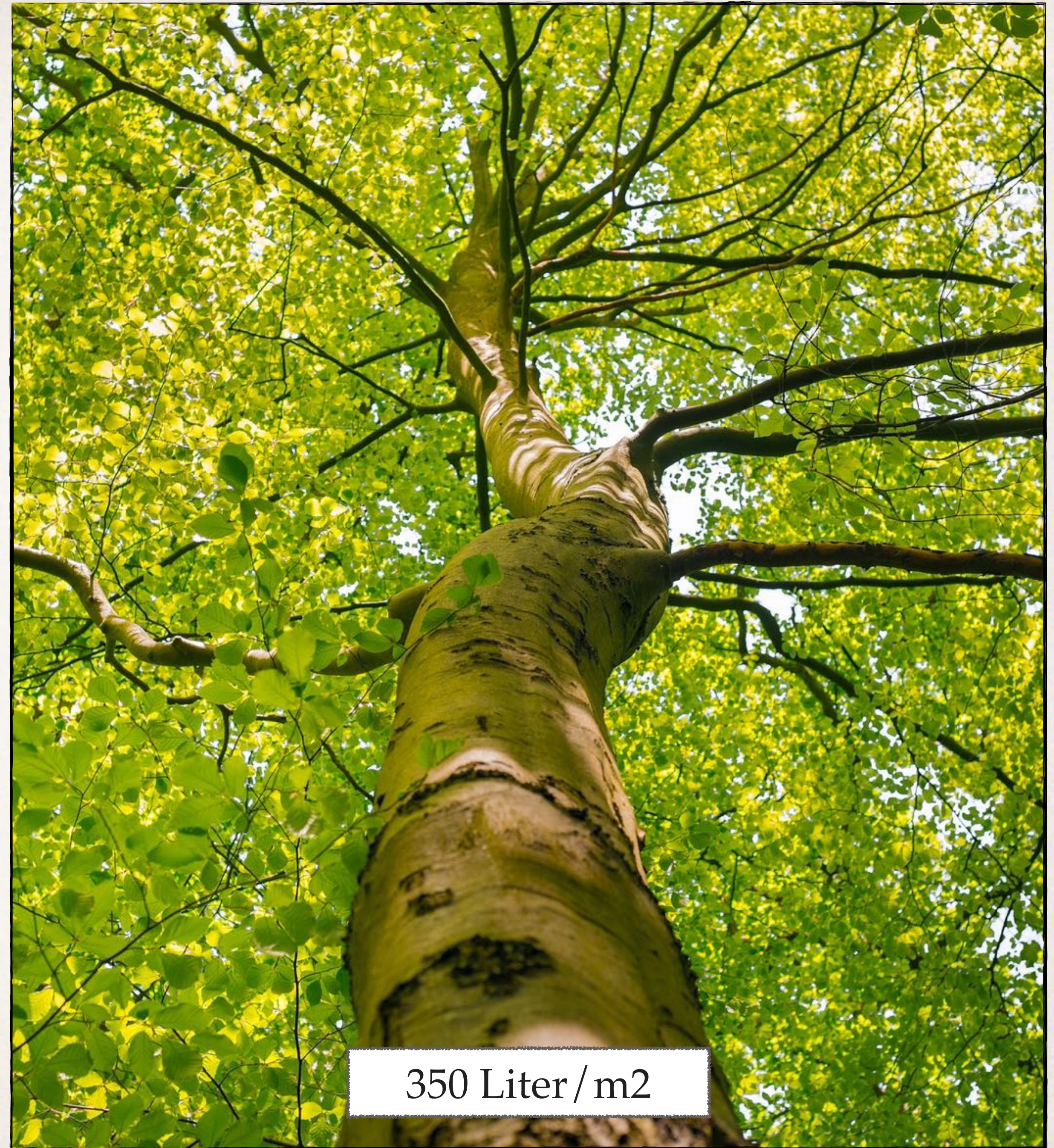
<https://pixabay.com/de/photos/bison-buffalo-herde-tierwelt-tiere-1581895/>







75 Liter / m²



350 Liter / m²



VOC* & Mikroorganismen

* flüchtige organische Verbindungen

Bigg, E.K., Soubeyrand, S., Morris, C.E., 2015. Persistent after-effects of heavy rain on concentrations of ice nuclei and rainfall suggest a biological cause. Atmospheric Chemistry and Physics

Joung, Y.S., Ge, Z., Buie, C.R., 2017. Bioaerosol generation by raindrops on soil. Nature Communications

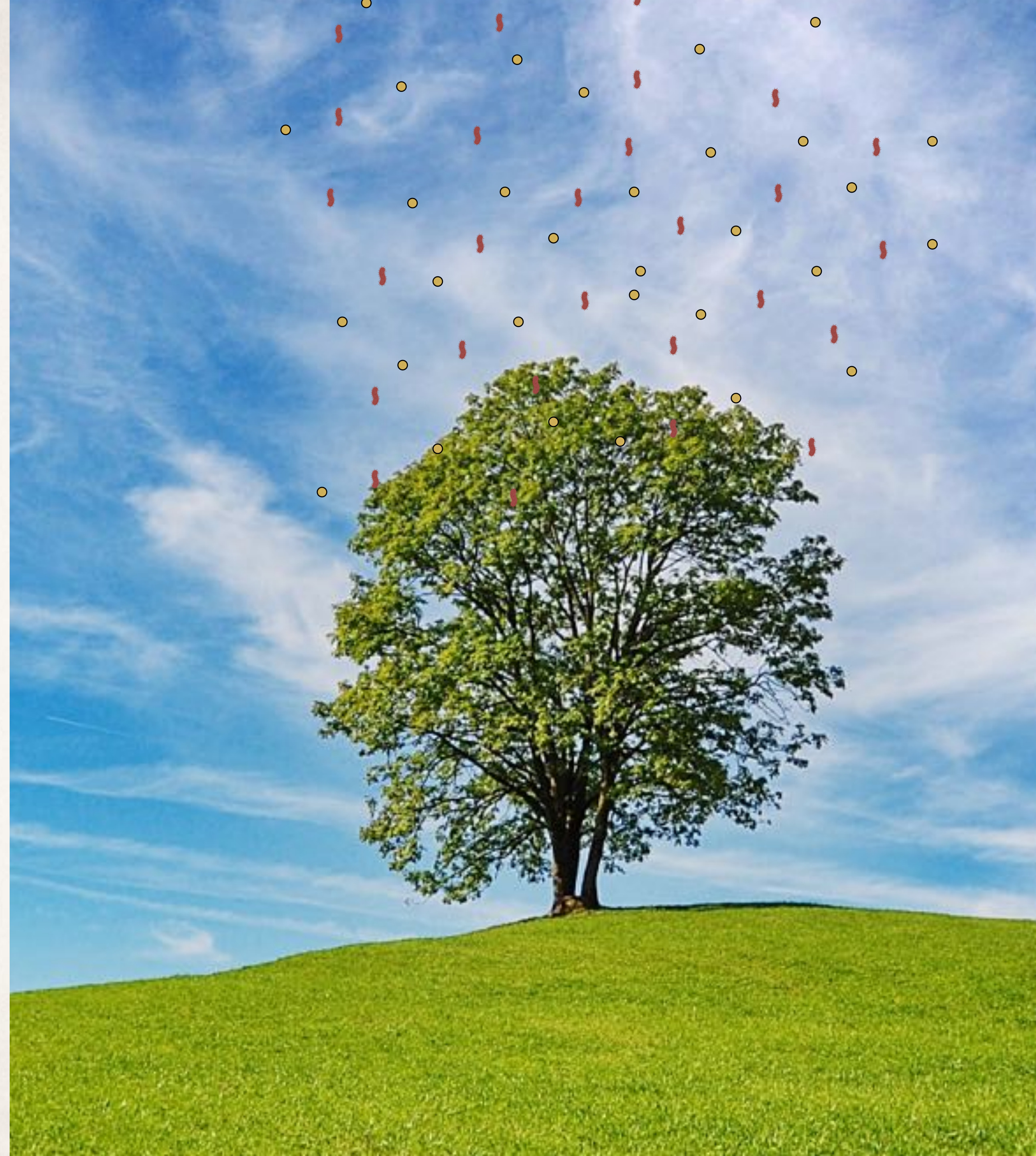


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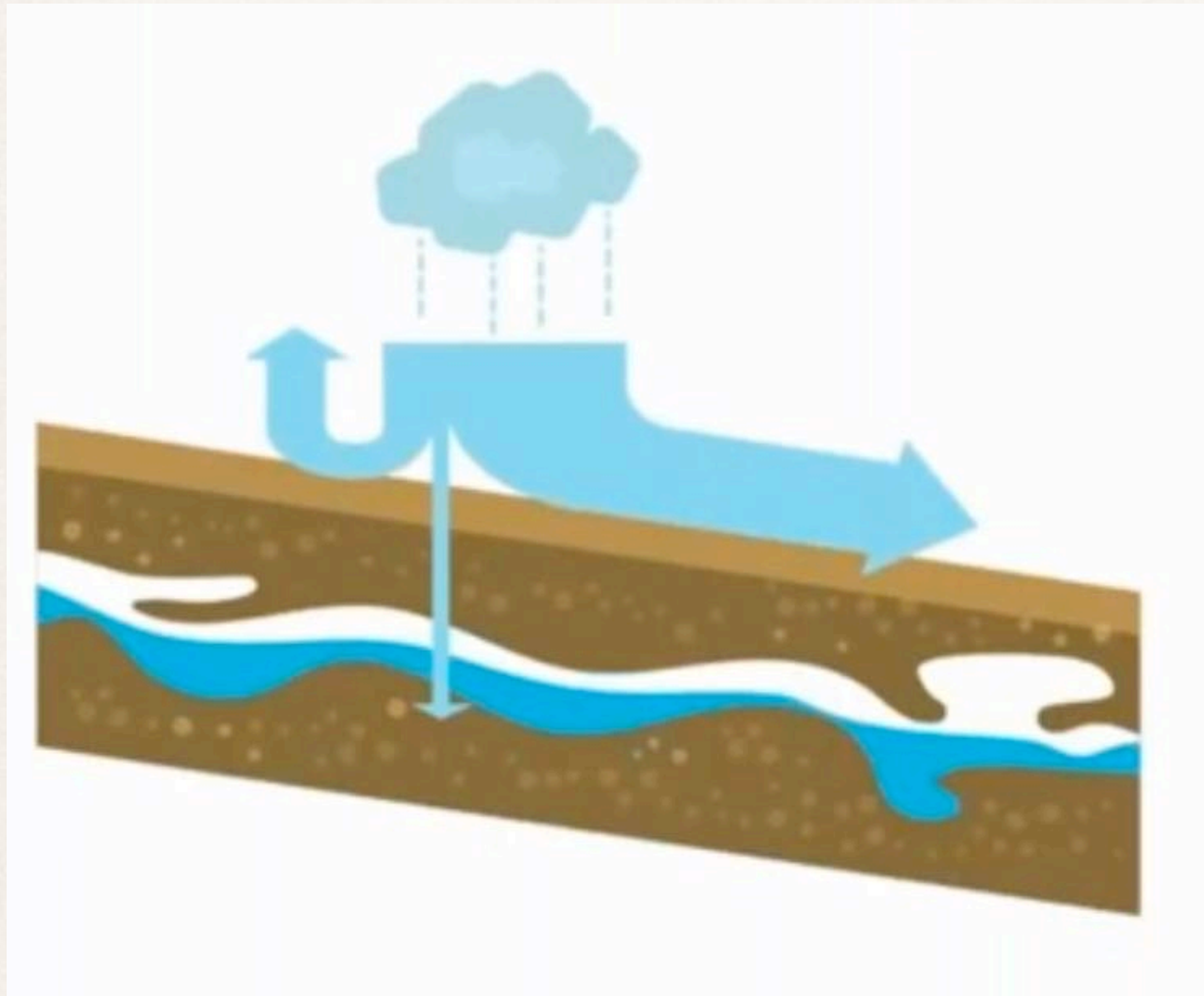
Klimawandel

Bundesamt warnt vor Trinkwasserknappheit in Deutschland

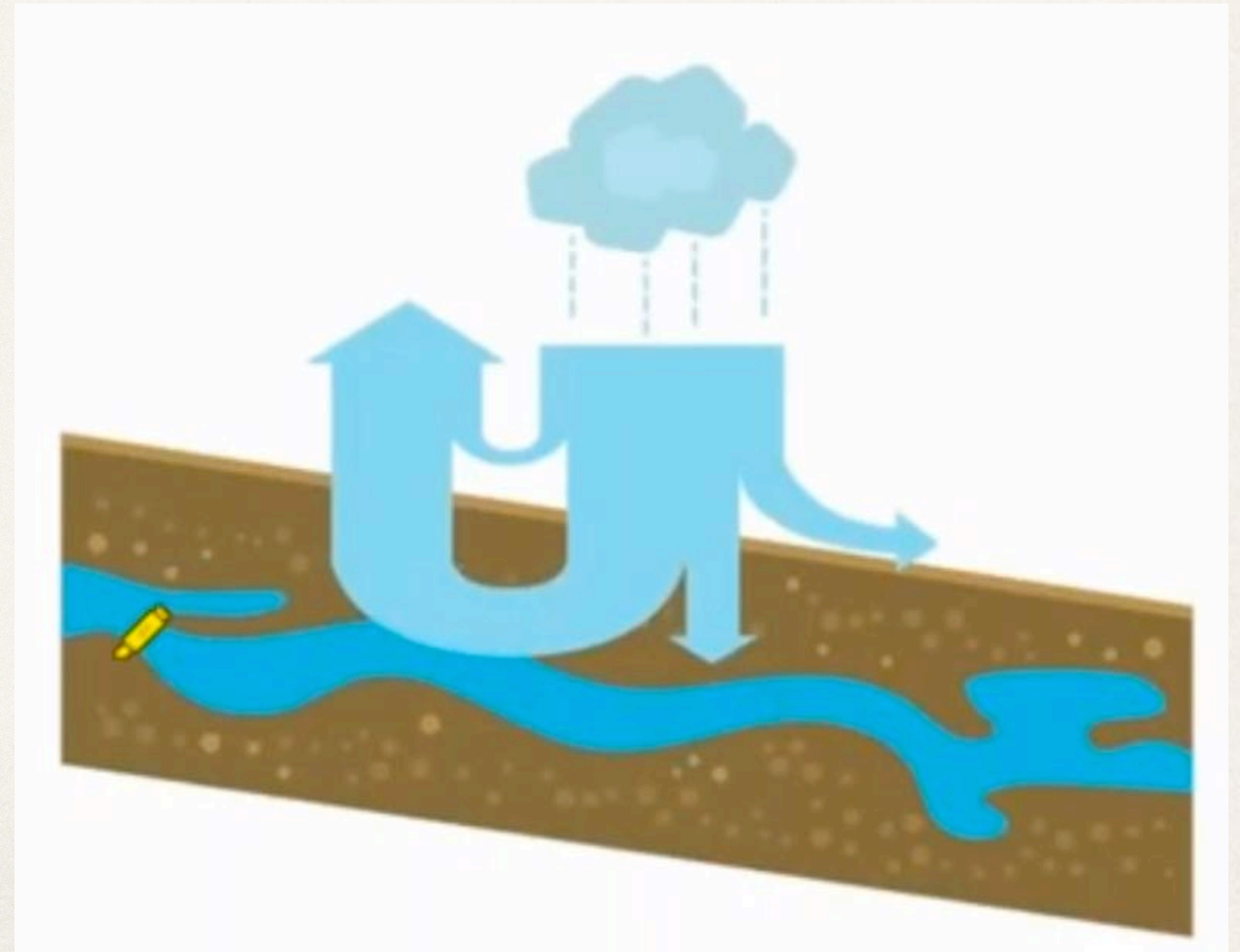
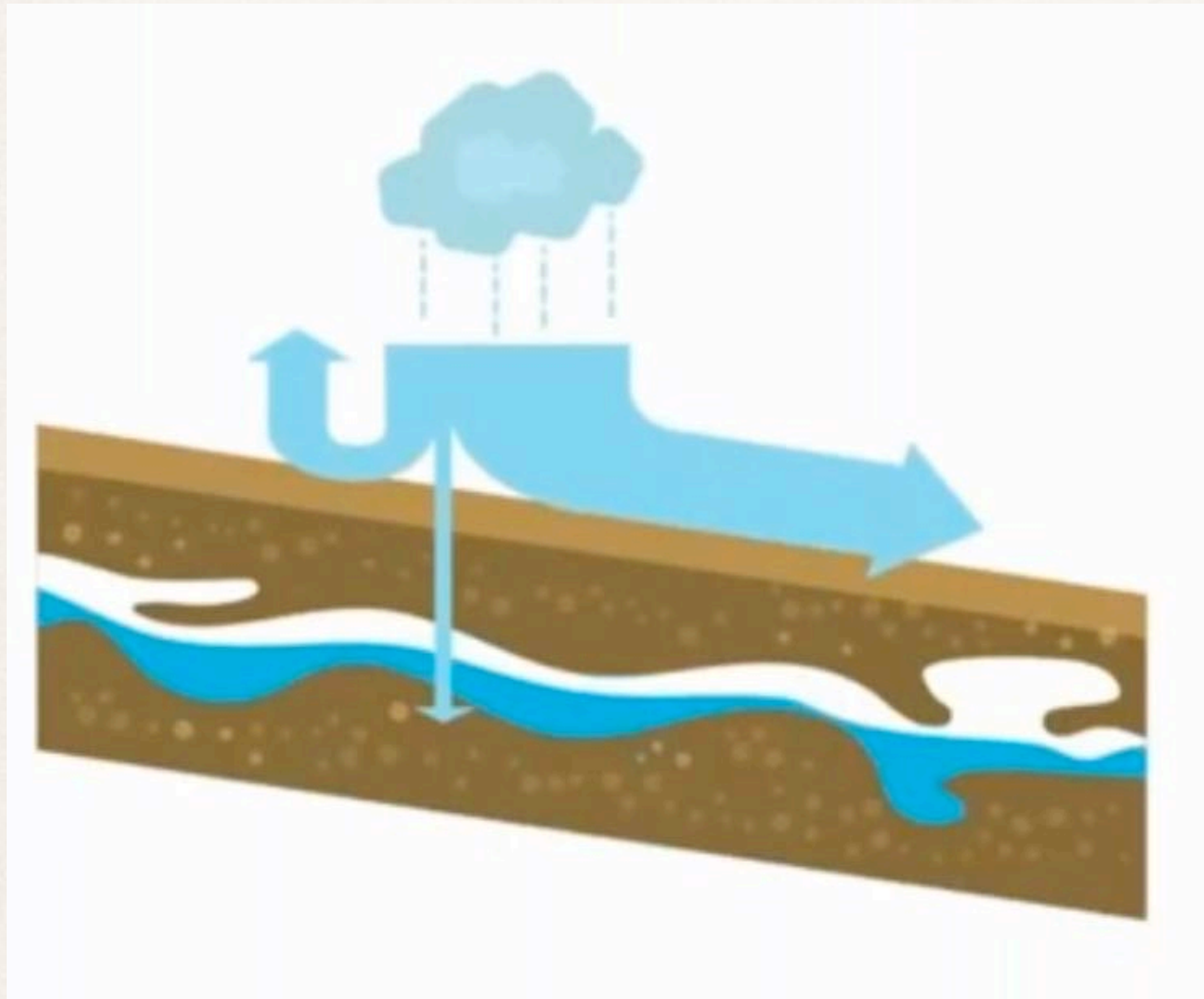
Sinkendes Grundwasser und der Verbrauch in der Landwirtschaft könnten mittelfristig die Versorgung mit Trinkwasser gefährden: Laut Bundesamt für Bevölkerungsschutz muss schon jetzt vorgesorgt werden.

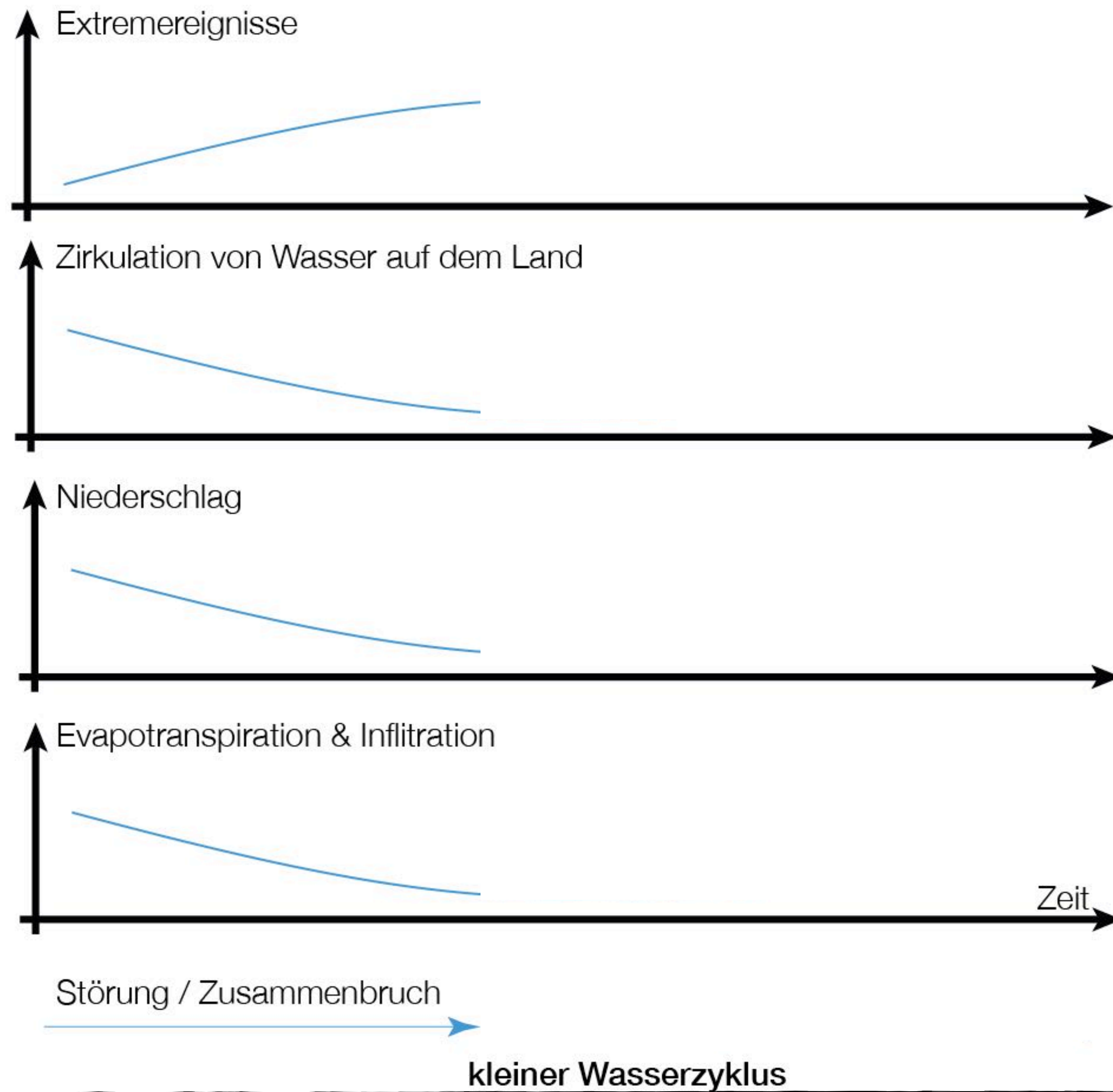
18.05.2021, 03.40 Uhr

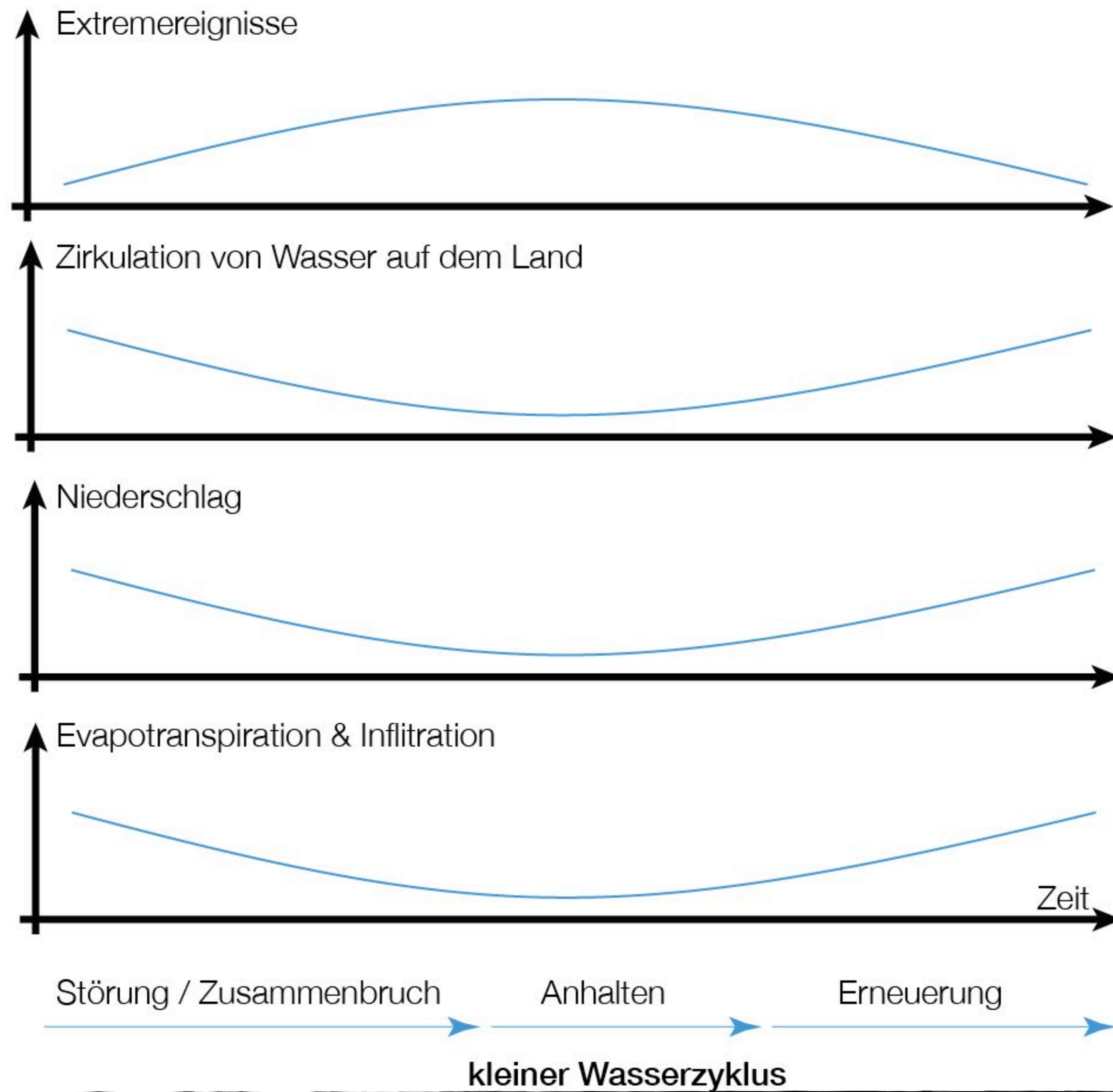
Altes vs neues Wasserparadigma



Altes vs neues Wasserparadigma









Humusaufbau



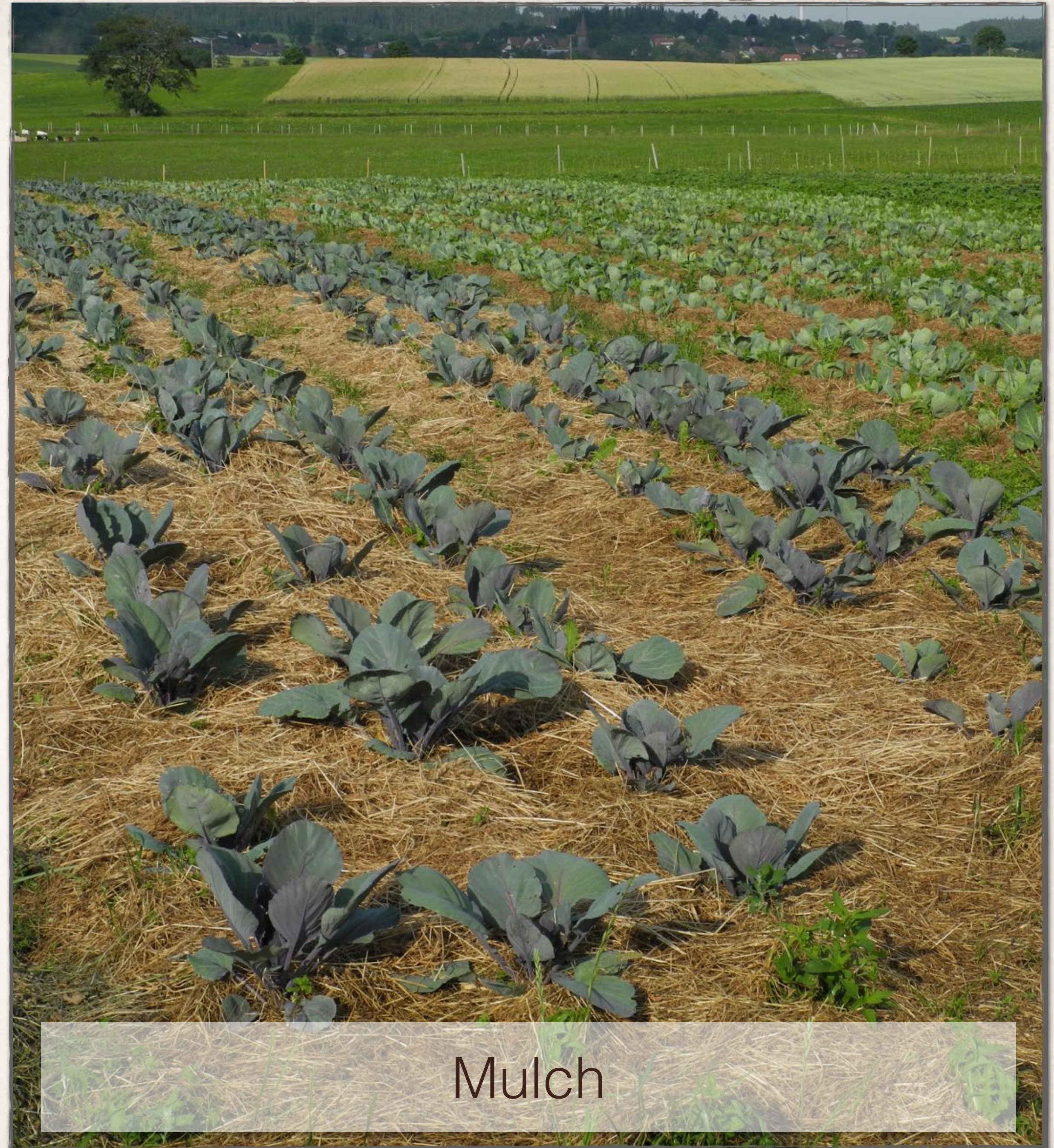
Direktsaat



Untersaaten



Zwischenfrüchte



Mulch

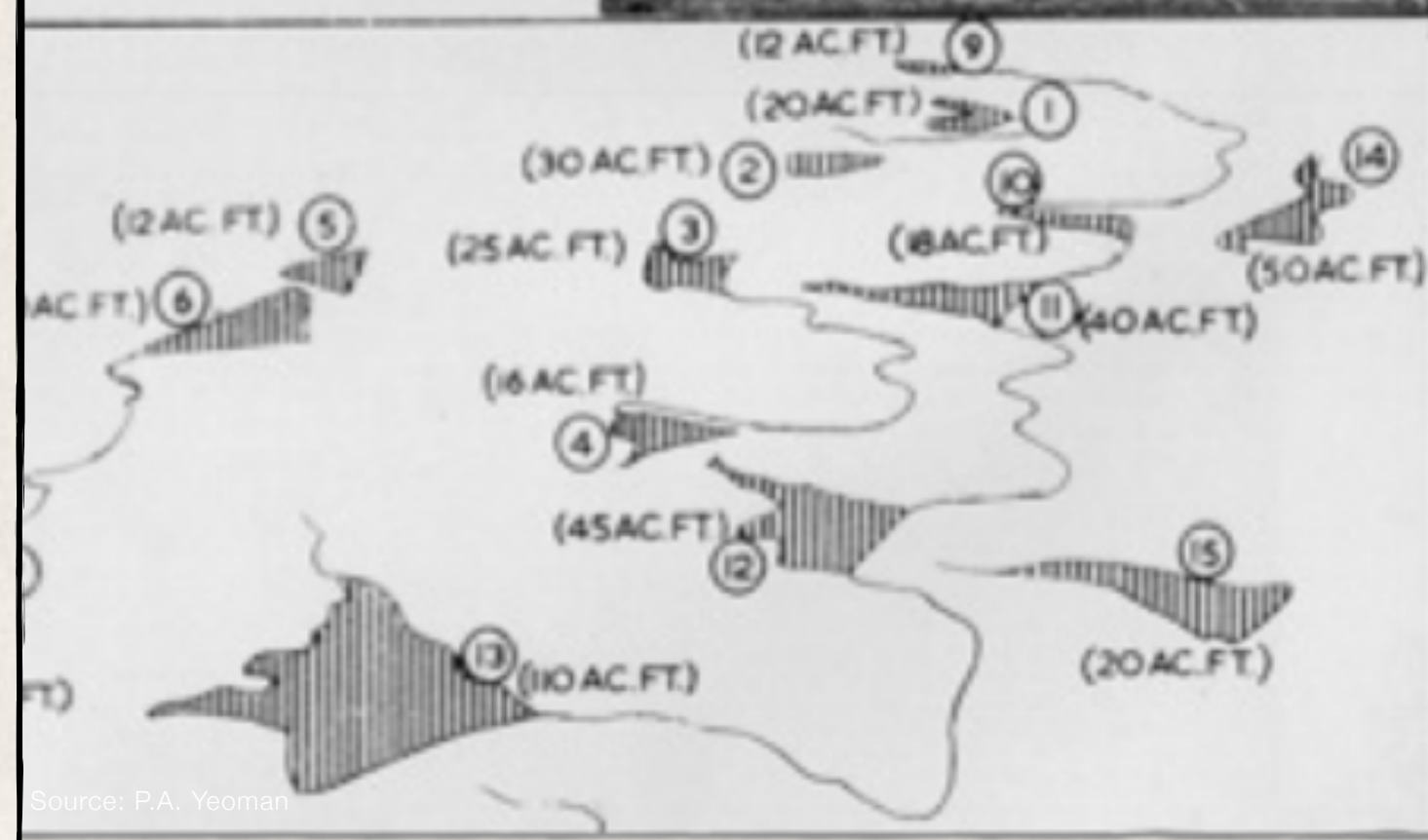


Drainage



ATE 5

e" photographed
e air, after 17
Keyline irriga-
velopment. The
covers about
es and fifteen
irrigation dams
le in this pic-
photographed by
lass Baglin.)











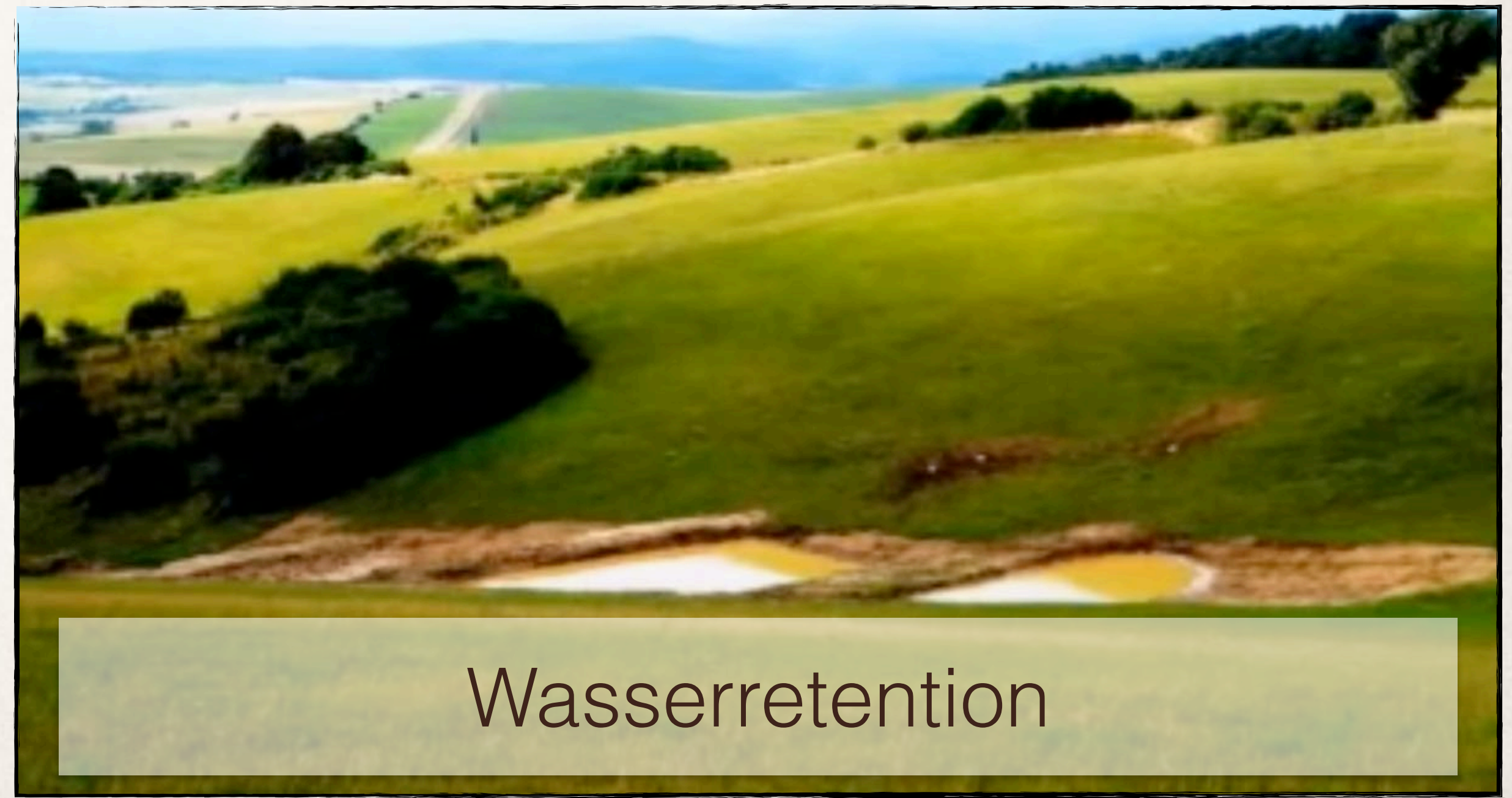








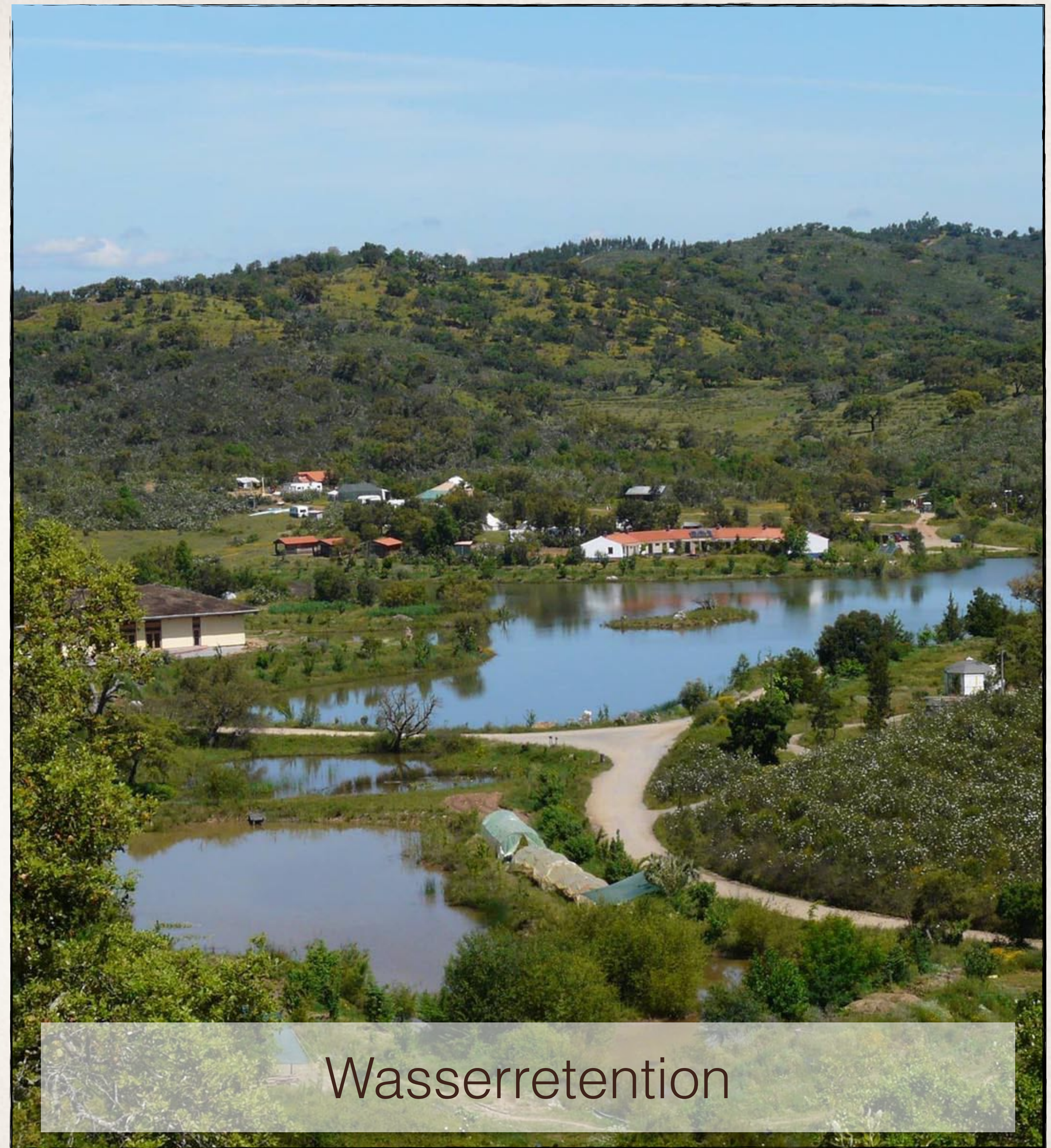
https://commons.wikimedia.org/wiki/File:Alentejo_landscape.jpg



Wasserretention



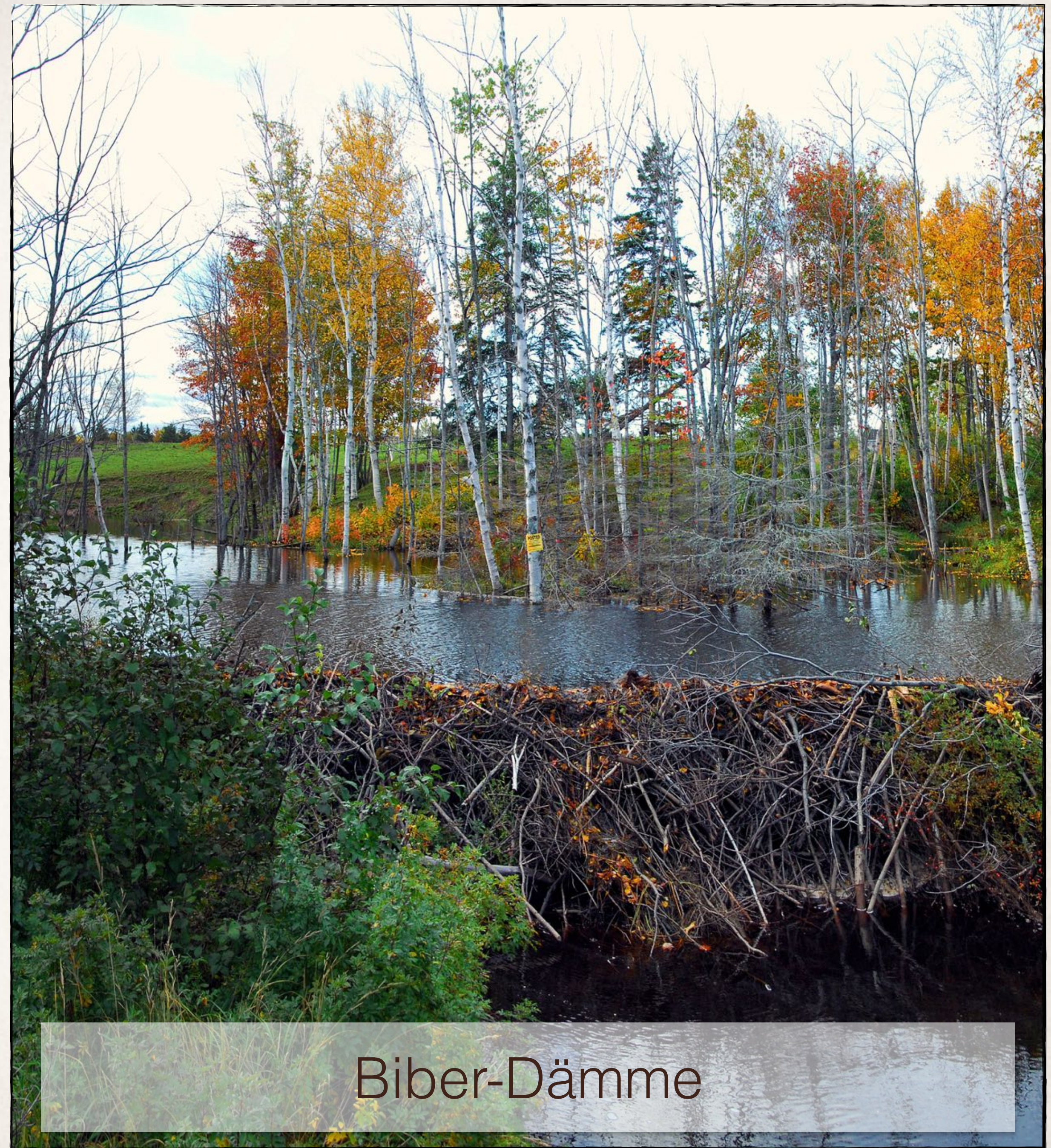
https://commons.wikimedia.org/wiki/File:Alentejo_landscape.jpg



Wasserretention



<https://eike-klima-energie.eu/2022/08/30/die-trockenlegung-der-landschaft-und-die-bebauung-machen-die-sommer-heisser-und-erzeugen-hochwasser/?print=print>



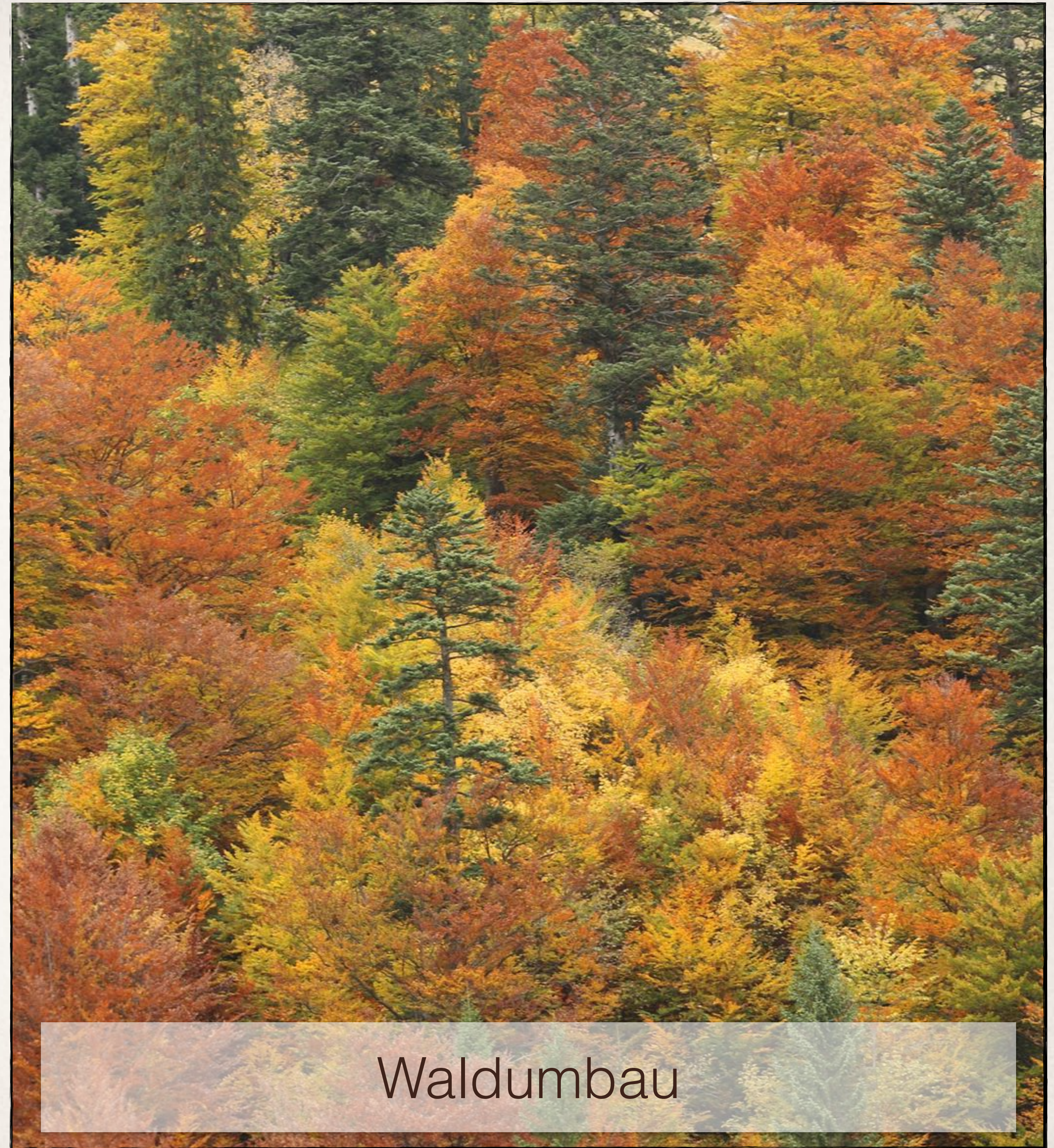
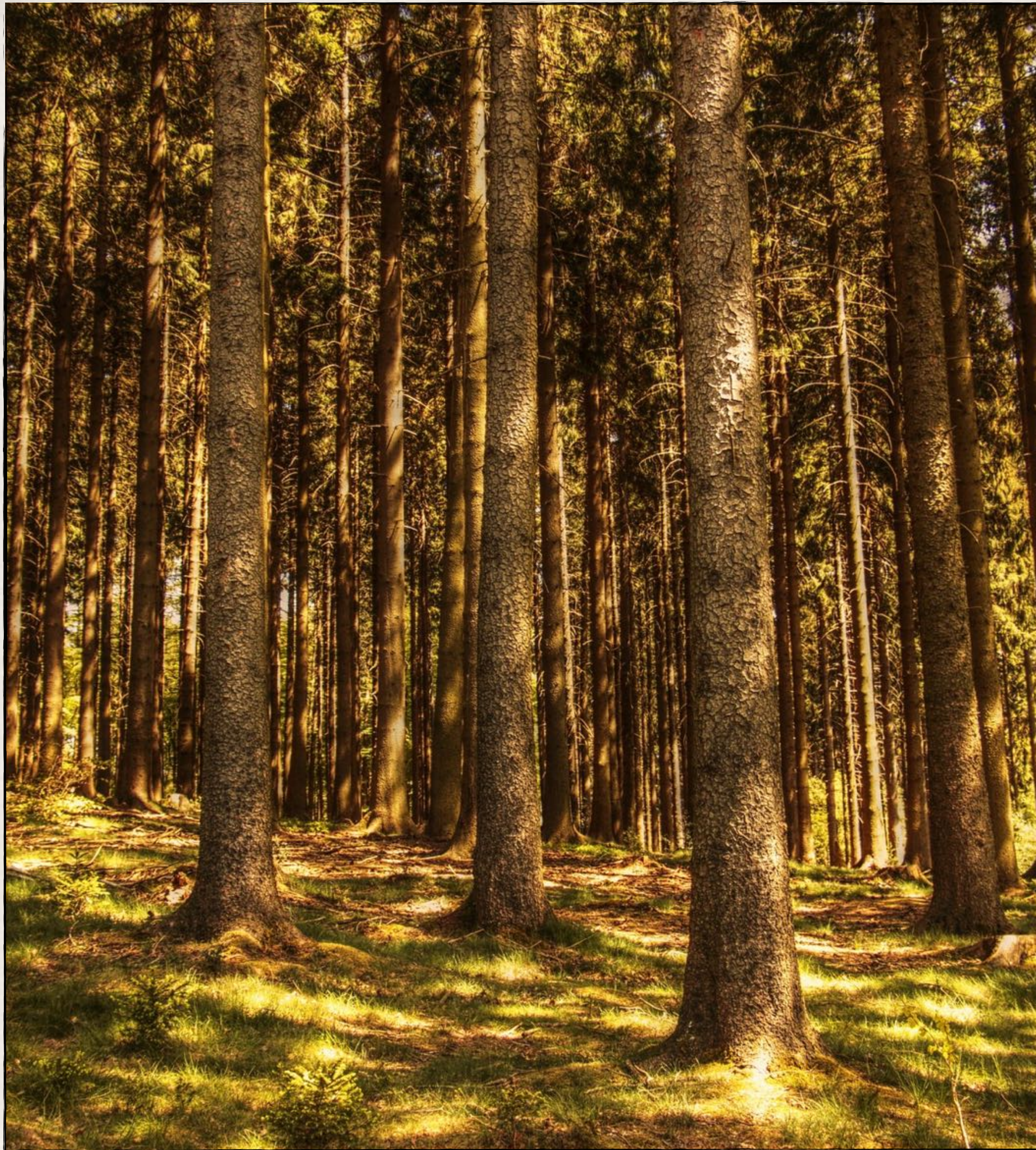
Biber-Dämme



Holistisches Weidemanagement



Agroforstwirtschaft



Waldumbau



https://commons.wikimedia.org/wiki/File:Alentejo_landscape.jpg



Schwammstädte



Stefan Schwarzer • www.aufbauende-landwirtschaft.de

