



# VALUING NATURE

30<sup>th</sup> November 2017

## Retaining Peatland Carbon

Improving our models and understanding  
of the methane emissions from peatlands

Jasper Newman – PhD Researcher

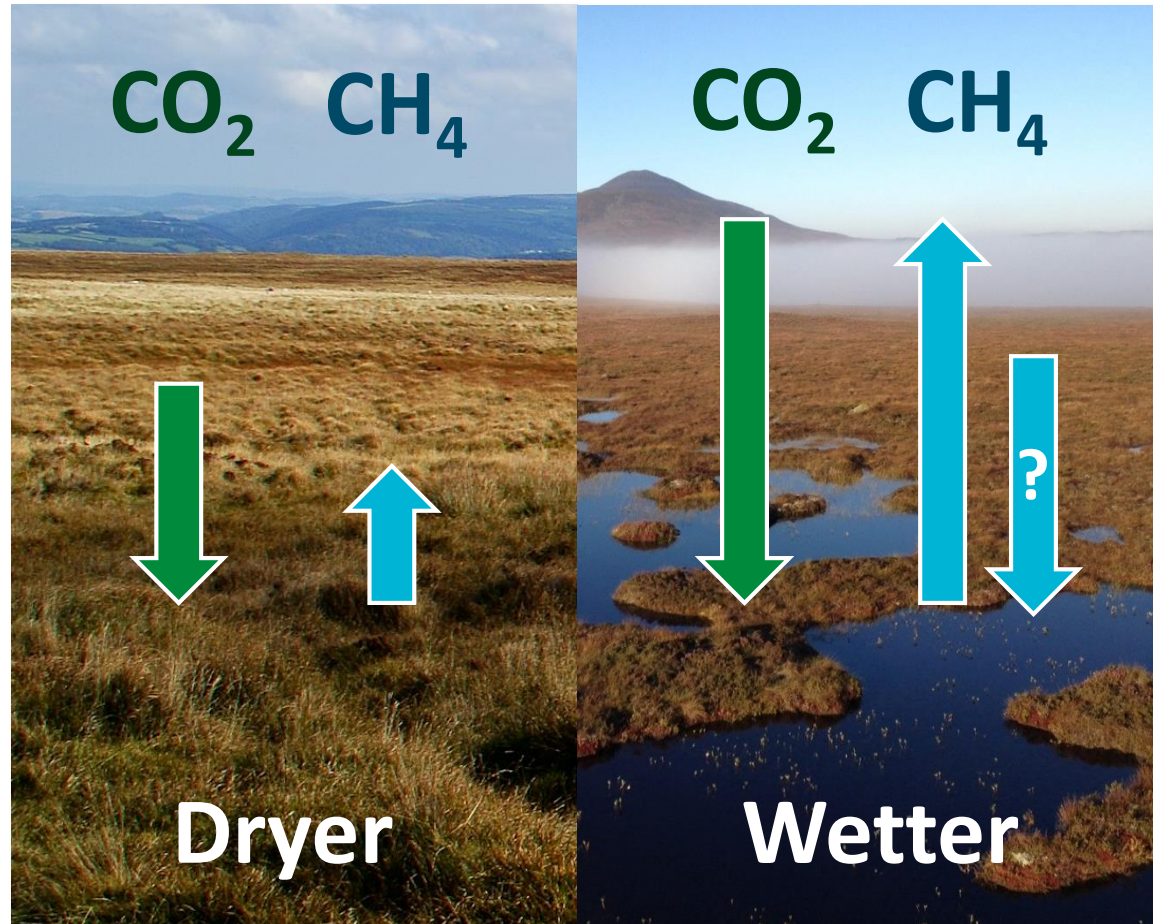
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# Peatlands Carbon Service Delivery

- Mosses trap carbon
- Carbon is stored long-term in peat
- We drain peat for energy, agriculture & horticulture
- When restored, more  $\text{CH}_4$  is released
- Bacteria can trap  $\text{CH}_4$  before release



Left: Dartmoor, photo from Wikimedia Commons. Right: Flow Country, photo cropped from Neil Cowie

# The B.I.S. - Broadening Knowledge & Contextualising My Research

- Funding interests influence what research happens
- Academics need to understand funding drivers
- The economics underpin research impact



Dartmoor, photo from Wikimedia Commons.

## Valuing Nature and Land management

- Biodiversity
- Water treatment
- Climate regulation service
- Carbon credit trading

# Communicating and Applying My Research

- Need to quantify ecosystem services
- Environmental engineering requires evidence for restoration
- Publications often don't reach decision makers



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