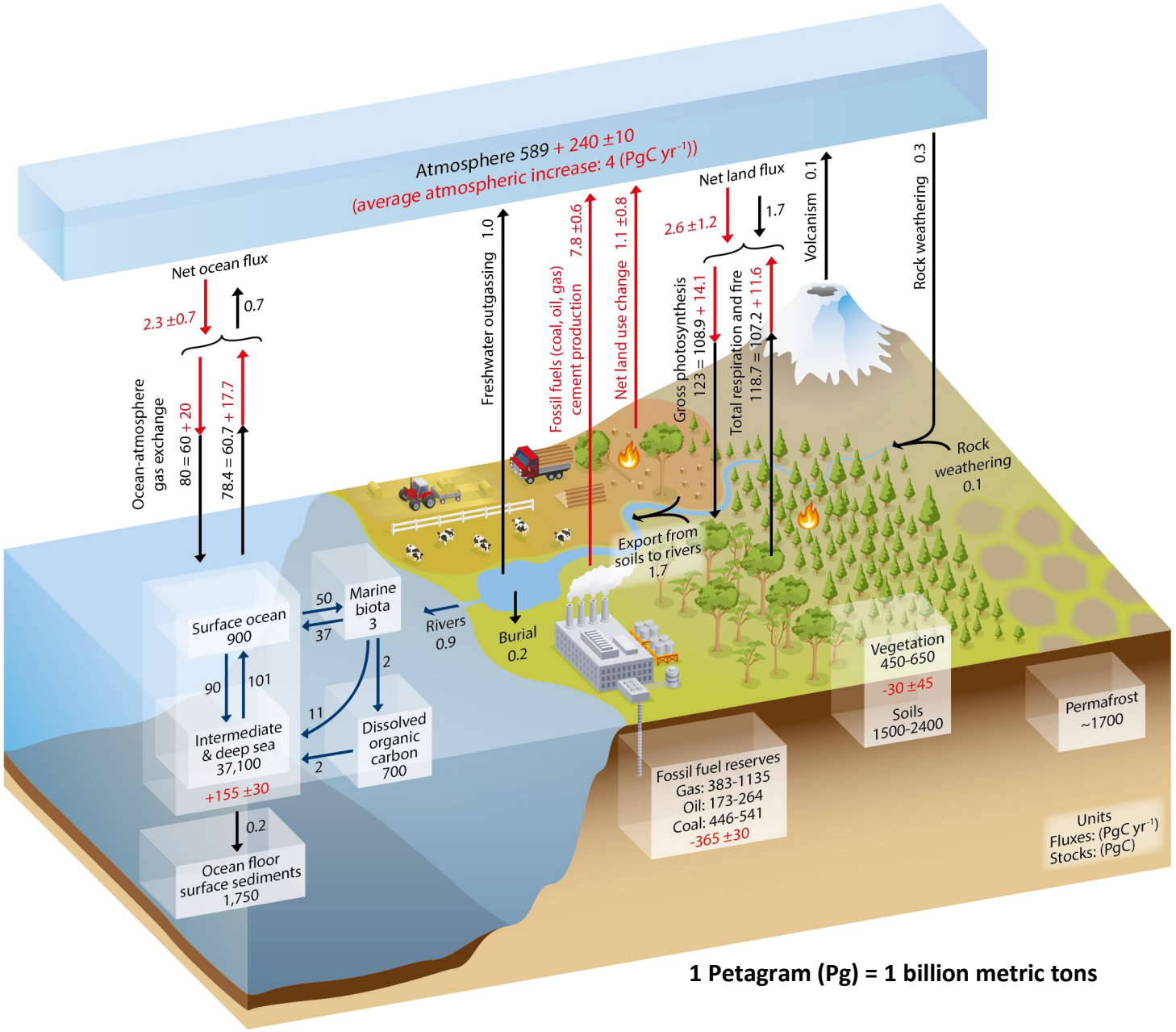


1 Petagram (Pg) = 1 billion metric tons

PEAK DISTRICT NATIONAL PARK

Key Facts

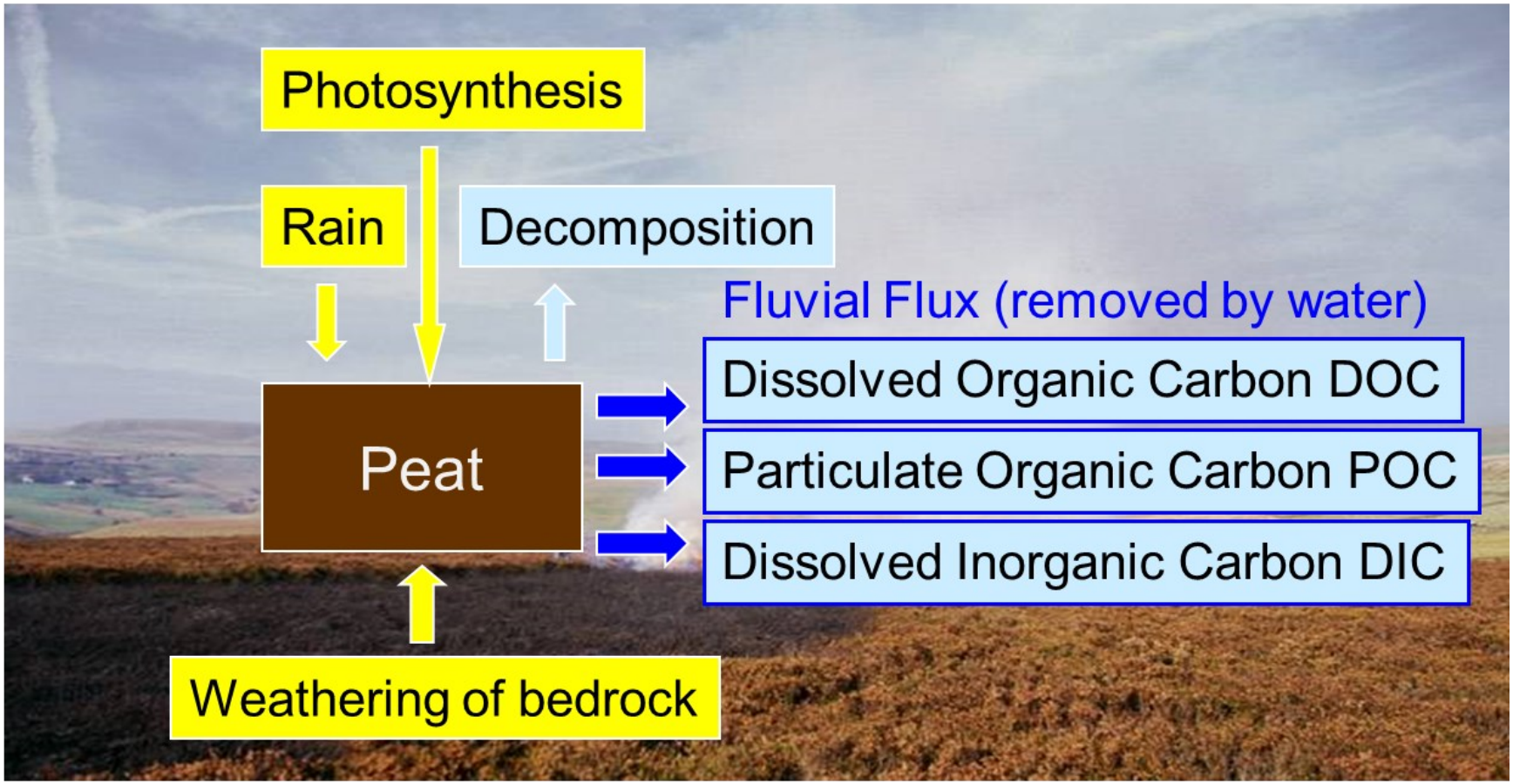
- Peat absorbs CO^2 by photosynthesis, rain and weathering of bedrock.
- Peat loses CO^2 through decomposition and fluvial flux (water) see reverse. CH^4 and CO^2
- Peatlands contain 50% of global soil carbon.
- Peat is 90-95% organic and 50% of that is carbon.
- Peat formation requires wet and cold climates so climate change is a real threat
- A healthy peatland landscape is essential to mitigate climate change.

In the UK

- There is 15% of the worlds blanket peat but 80% of it is badly eroded.
- Badly eroded peatlands become a net carbon source. Not Good!
- There is 2X as much carbon in UK peat as in all the UK's vegetation, most of which is in Scotland.
- A 5% peat loss is equivalent to the UK annual greenhouse gas emissions.

The Moorland Carbon Cycle

PEAK DISTRICT NATIONAL PARK



CO2 INPUTS

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