Living well

Living sustainably - living responsibly -

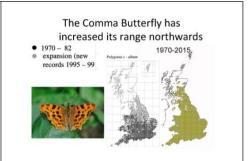
Climate and environment change is happening right now. Here are some changes round Settle:



Increased frequency of flooding: The River Ribble at Queen's Rock, Settle

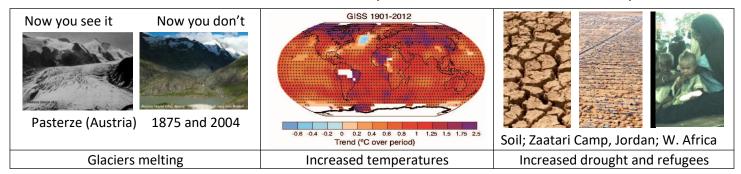


Increased Nitrogen compounds in air (NH₃ and NO_x) leading to increased *Klebsormidium crenulatum* (a felty green alga on acid rocks and trees)



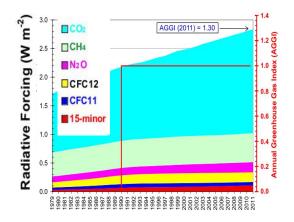
The Comma Butterfly has increased its range northwards

And in the world: 2014 had the warmest world temperatures on record (NASA data). Then 2015 did. Then 2016 did!!! 2017? 2017 was the second-hottest year on record. 2018 was the 4th warmest year.

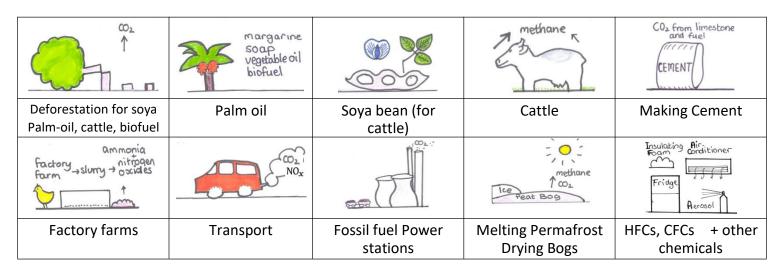


Which gases are making the air warmer?

Human made Greenhouse gases are making the air warmer. Gases include: carbon dioxide, nitrogen oxides, methane, ozone, CFCs. The amount of greenhouse gases produced is called one's carbon footprint (or CO_2e – greenhouse gas equivalent). This graph shows changes in the annual greenhouse gas index (AGGI) between 1979 and 2011.



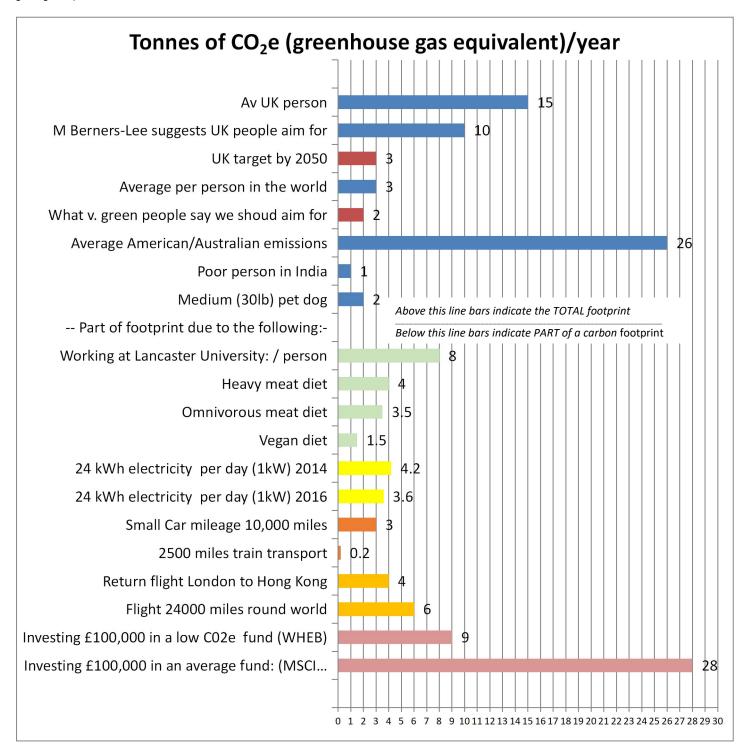
Human caused sources of Greenhouse gases:-



See if you can reduce your own Carbon Footprint

What issues of scientific interest, choice and fairness do these bars raise?

We must aim for a footprint of 3 tonnes per person if we are to have less than 2°C rise in temperature. (NB: This chart has been compiled by J Allinson from figures from various sources. Some sources give results that are 25% different, for many reasons, but this graph is a good guide.)



Which two bars do you find most interesting, and why?

Our Banks, Pension Funds, and in some cases our own investments (and church investments) are being invested in industries and fossil fuels which are making the situation worse. (See last two bars.) Read about Christian Aid's *Big Shift* and Operation Noah's *Bright Now* campaigns to see what you can do.