



CBAT

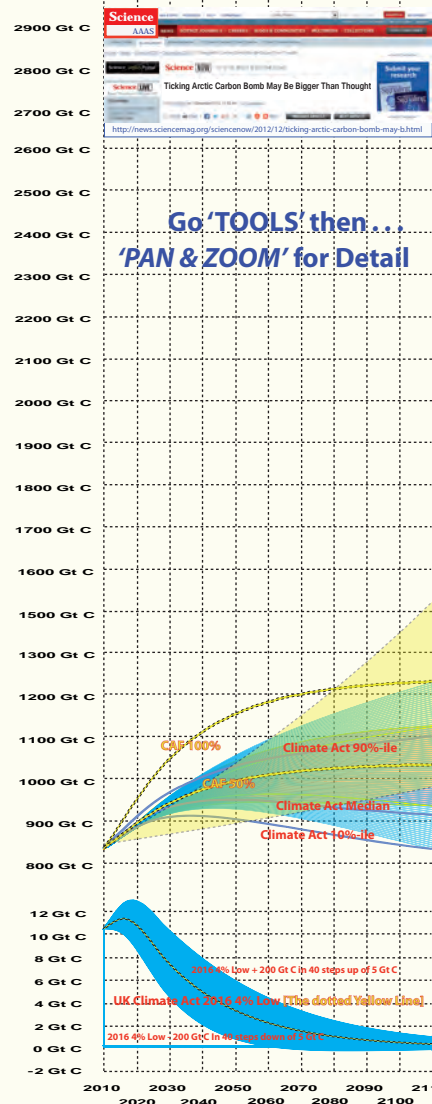
<http://www.gci.org.uk/CBAT.html>

"Ticking Arctic Carbon Bomb May Be Bigger Than Thought."



This image suggest the effect on the atmosphere of releasing another 1.9 Trillions Tonnes Carbon from Perma Frost melt in some time-frame. AAA's article in Science suggests this release has already begun.

3000 Gt C [1,400 ppmv]



It is estimated that another 1.9 trillion tonnes of carbon is stored in the 'perma-frost' [Science]. This permafrost has started melting due to enhanced global warming. Once on this path, the potential release of this extra CO₂ to the atmosphere, is on a time-frame that is hard to calculate.

However, weighed on a scale of Billions of Tonnes of Carbon [Giga Tonnes or Gt C] it is easy to calculate, but once under way it is impossible to stop.

The weight reaches the top of this yellow shape at around 3 trill. tonnes or 1400 ppmv carbon [only]. IPCC estimates reaching 1000 CO₂-e is equal to a temperature rise of 4-8°. So the worst-case of perma-frost melt alone, dwarfs human emissions control and presages a climate holocaust.

UK Climate Act [2016 4% Low]
Atmospheric Carbon Concentrations
the three Blue Lines [10%-ile, Median, 90%-ile]
Airborne Fraction Constant at 50% [the dotted Yellow Line]
The blue lines step above & below CAF 50% in
40 steps up of 5 Gt C each &
40 steps down of 5 Gt C each.

Go 'TOOLS' then ...
'PAN & ZOOM' for Detail
UK Climate Act
Carbon Emissions Budget [2016 4% Low]
[2016 4% Low The dotted Yellow Line]

The blue lines step above & below '2016 4% Low' in
40 steps up of 5 Gt C each &
40 steps down of 5 Gt C each.