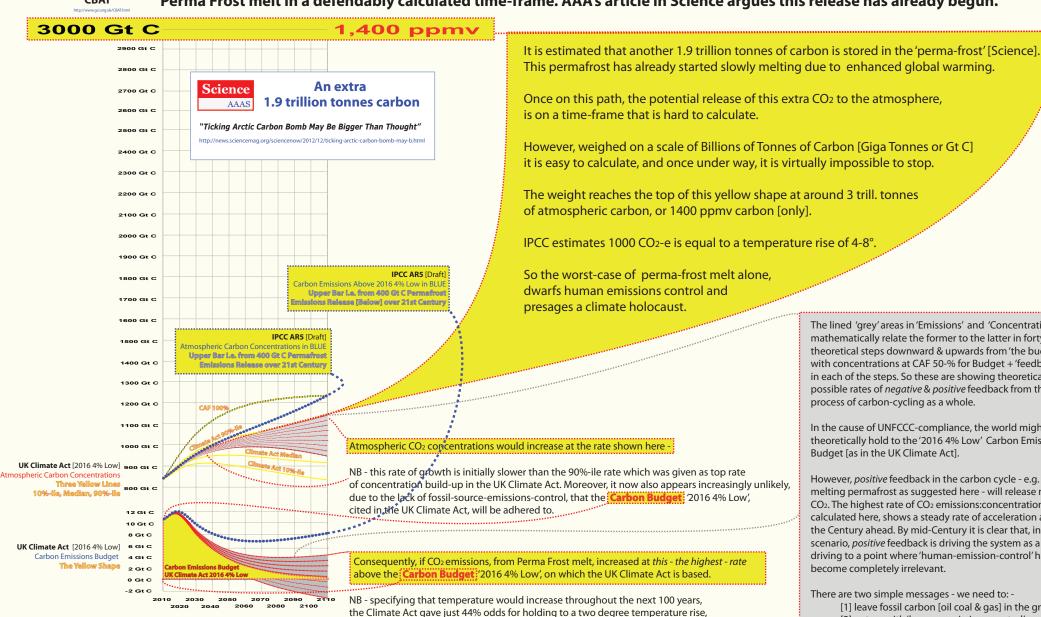


## "Ticking Arctic Carbon Bomb May Be Bigger Than Thought."



**CBAT** 

This image portrays the effect on the atmosphere of releasing another 1.9 Trillions Tonnes Carbon from CO<sub>2</sub> from Perma Frost melt in a defendably calculated time-frame. AAA's article in Science argues this release has already begun.



if the 'median case' for CO<sub>2</sub> concentration rise is what evolved. Omitting permafrost feedback altogether, Climate Act authors incorrectly claimed to have, 'modelled all known feedbacks'.

The lined 'grey' areas in 'Emissions' and 'Concentrations' mathematically relate the former to the latter in forty theoretical steps downward & upwards from 'the budget' with concentrations at CAF 50-% for Budget + 'feedback' in each of the steps. So these are showing theoretically possible rates of *negative* & *positive* feedback from the

In the cause of UNFCCC-compliance, the world might theoretically hold to the '2016 4% Low' Carbon Emissions

However, positive feedback in the carbon cycle - e.g. from melting permafrost as suggested here - will release more CO<sub>2</sub>. The highest rate of CO<sub>2</sub> emissions:concentration calculated here, shows a steady rate of acceleration across the Century ahead. By mid-Century it is clear that, in this scenario, positive feedback is driving the system as a whole, driving to a point where 'human-emission-control' has

There are two simple messages - we need to: -

- [1] leave fossil carbon [oil coal & gas] in the ground
- [2] get on with 'human-emissions-control' asap.