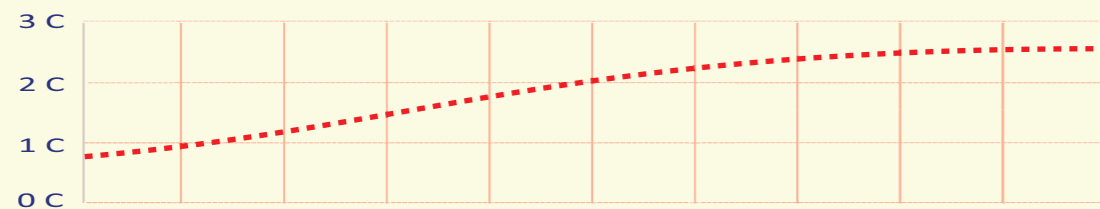


# COMPARING THE UKMO'S NEW CONTRACTION-BUDGET & CONCENTRATION PATH [A1B-2030-5-L | Published 'Nature Climate' January 2013]

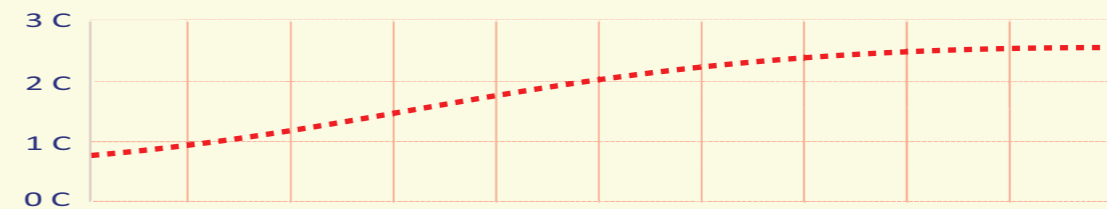
[a] Reference Case  
Atmosphere concentrations  
retained @ 50% of emissions

[b] UKMO Negative Feedback  
Atmosphere concentrations  
discarded @ more than 100%  
of emissions after 2050.

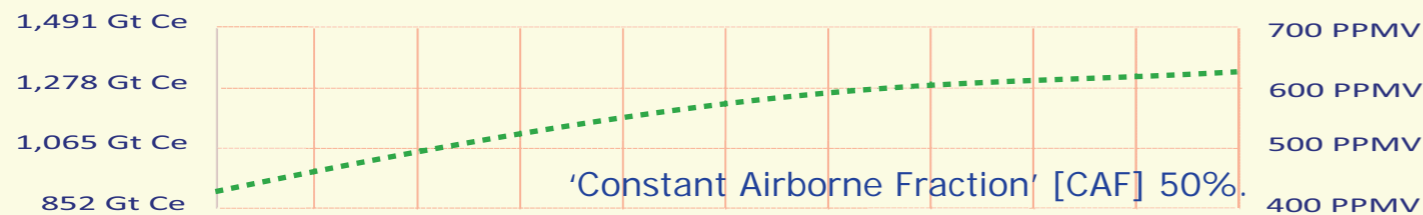
UKMO Temperature Increase above pre-Industrial



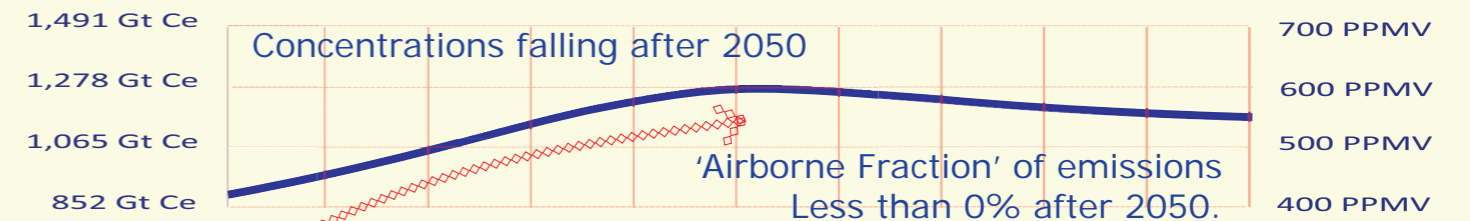
UKMO Temperature Increase above pre-Industrial



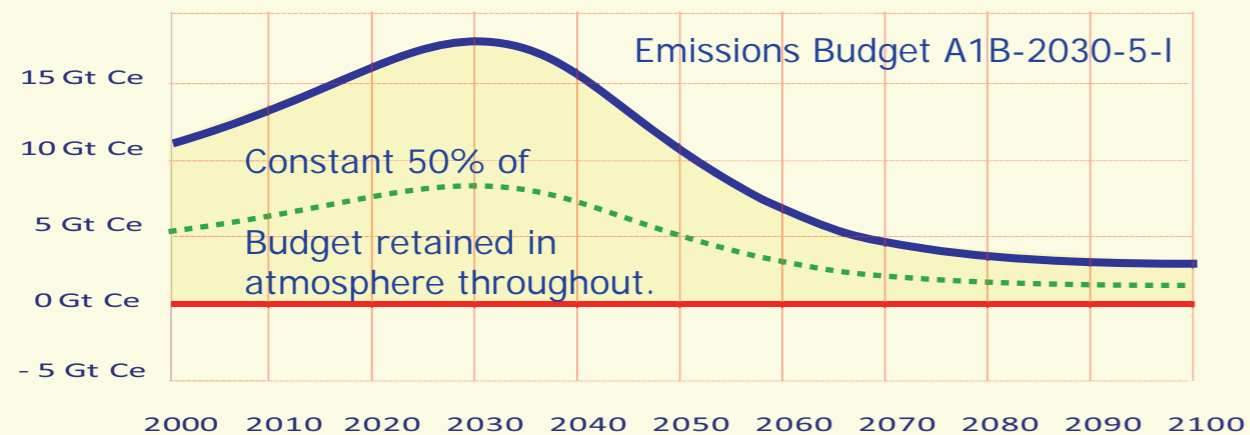
Reference Atmo CO<sub>2</sub>-e Concentrations [CAF 50%]



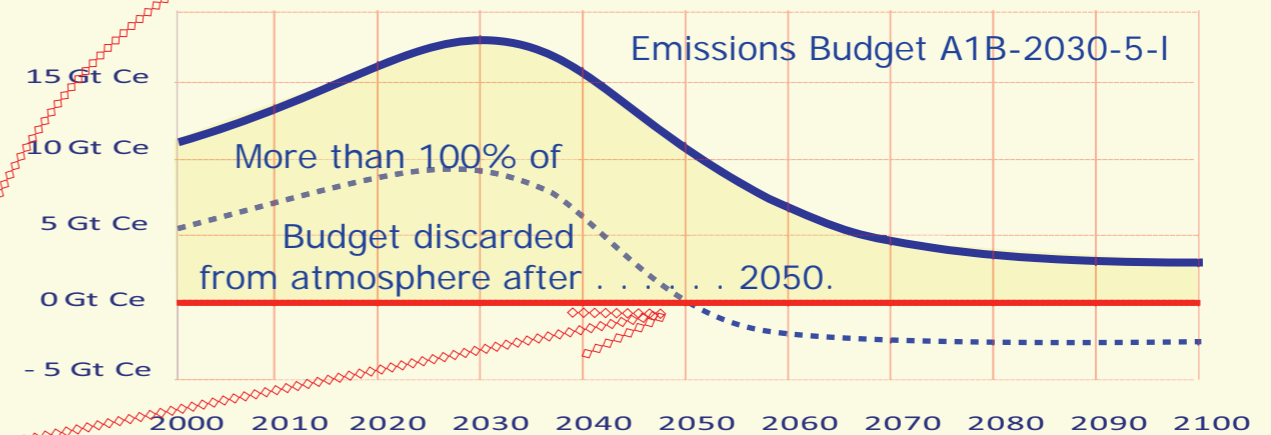
UKMO Atmosphere CO<sub>2</sub>-e Concentrations



UKMO Emissions CO<sub>2</sub>-e



UKMO Emissions CO<sub>2</sub>-e



*Sinks bigger than sources by 2050?? . . . . The UKMO's position on this A-Fraction is absurd . . . .*

Evidence over the last 200 years suggests the average rate of retention of emissions in the atmosphere, at most a few % points under 50%, hence the term 'Constant Airborne Fraction' [CAF]. Due to continuing warming this under-values the increasing likelihood of net positive feedback globally.

This UKMO scenario [A1B-2030-5-L] has atmospheric concentrations falling from 2050 I.E. from 2050 'sinks are larger than sources' in the opinion of UKMO due to the growing influence of net negative feedback globally. This is completely improbable due to the warming increasing throughout.

# UKMO Atmosphere CO<sub>2</sub> Concentrations



1,200 PPMV

1,100  
1,000  
900  
800  
700  
600  
500  
400  
300  
200

## From Nature Climate - Lowe et al UKMO January 2013

Note as in the UK Climate Act UKMO are saying again that against the underlying CO<sub>2</sub> emissions budget atmosphere CO<sub>2</sub> concentrations are falling from 2050.

They mean strong *negative* feedback.

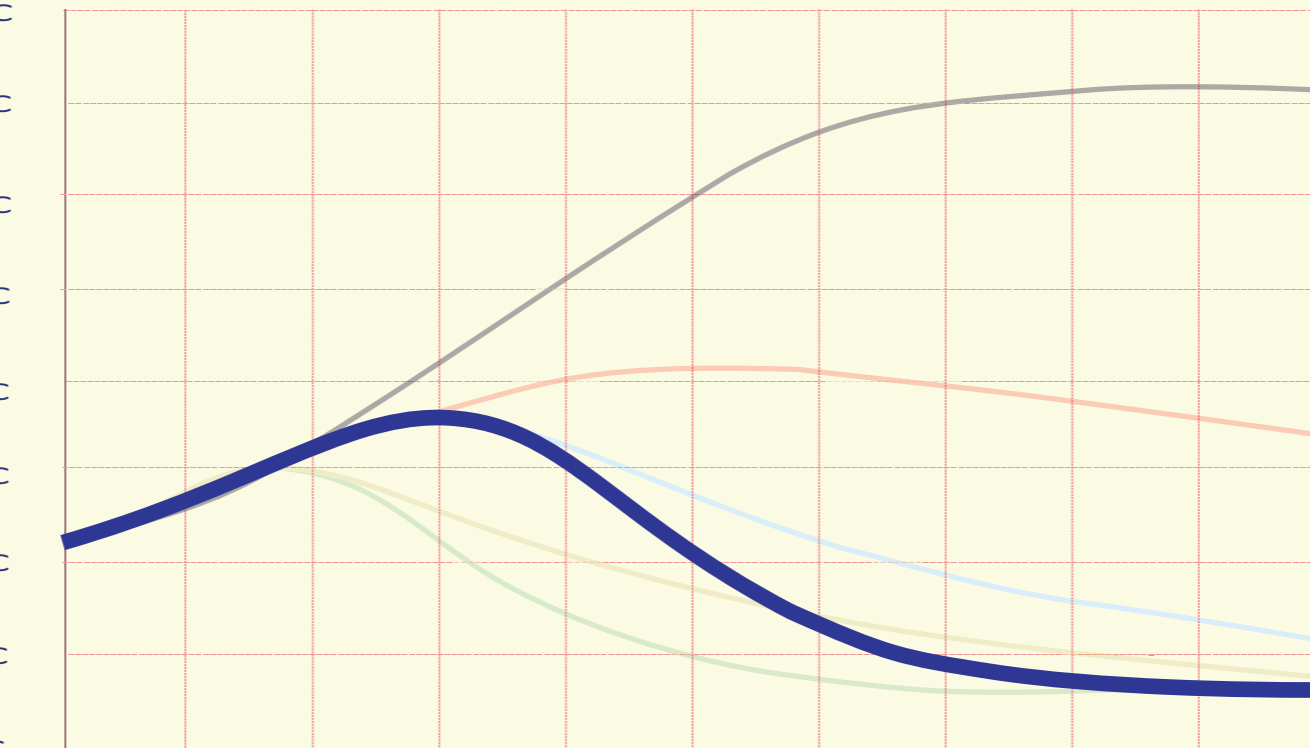
This is disinformation - there is no evidence to support this. There is only growing evidence to support the opposite case that there will be increasing *positive* feedback as warming progresses.

800 PPMV or 1,704 Gt C  
700 PPMV or 1,491 Gt C  
600 PPMV or 1,278 Gt C  
500 PPMV or 1,065 Gt C  
400 PPMV or 852 Gt C

2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100

# UKMO Emissions CO<sub>2</sub>

40 Gt C  
35 Gt C  
30 Gt C  
25 Gt C  
20 Gt C  
15 Gt C  
10 Gt C  
5 Gt C  
0 Gt C



2000 2010 2020 2030 2040 2050 2060 2070 2080 2090 2100