

FUTURE CARBON BUDGETS for KEEPING WITHIN 2°CELSIUS HUGE 'VARIATIONS' in FINAL Gt C RESULTS from IPCC AR5

IPCC AR5 Working Group 1 Policy Makers Summary [30 09 2013] says:

“Limiting the warming caused by anthropogenic CO₂ emissions alone with a probability of: -

- 1. >33%,*
- 2. >50%, and*
- 3. >66%*

to less than 2°C since the period 1861–1880, will require cumulative CO₂ emissions from all anthropogenic sources to stay between: -

- 1. 0 and about 1560 Giga-tonnes Carbon [Gt C]*
- 2. 0 and about 1210 Gt C, and*
- 3. 0 and about 1000 Gt C since that period respectively.*

These upper amounts are reduced to about: -

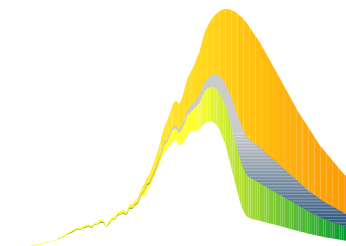
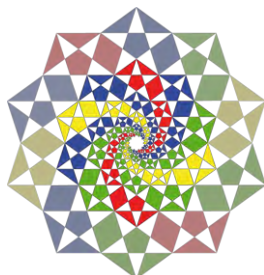
- 1. 880 Gt C,*
- 2. 840 Gt C, and*
- 3. 800 Gt C resp. when accounting for non- CO₂ forcings as in RCP 2.6.*

An amount of 531 [446 to 616] Gt C, was already emitted by 2011.”

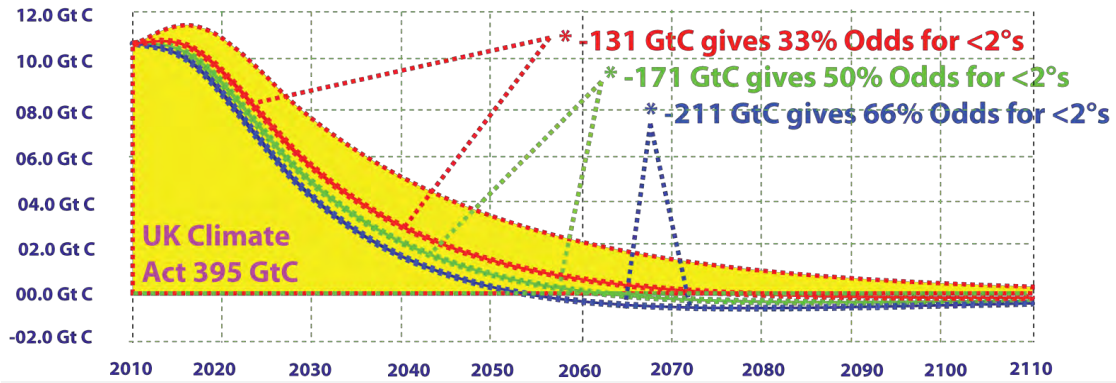
Analysed using CBAT: - <http://www.gci.org.uk/CBAT/cbat-domains/Domains.swf>

1. The first result effectively says 'halve the UKCA'.
2. The second result says, 'reduce UKCA by up to a third.'
3. The third result 50% odds, is the UKCA.

However, all these results omit the influence of feedbacks. Despite this omission, the UKMO will doubtless try and spin this as a vindication of the UK Climate Act.

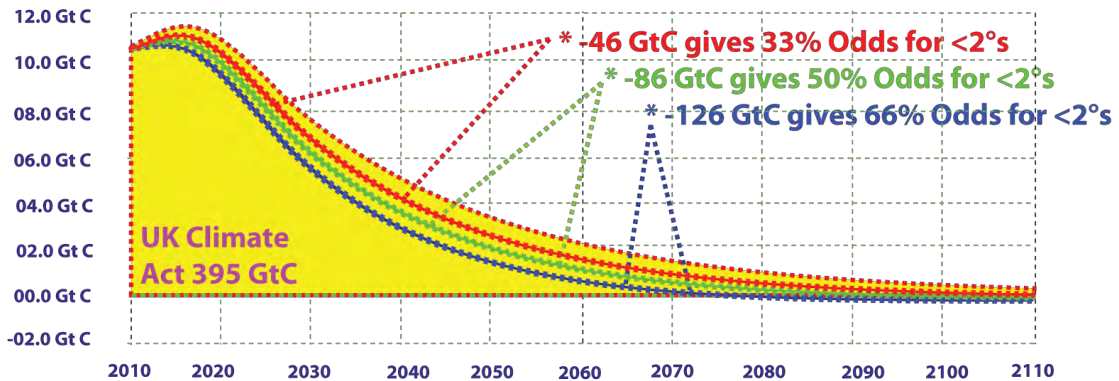


If 616 Gt C already emitted, IPCC AR5 shows UK Climate Act: -



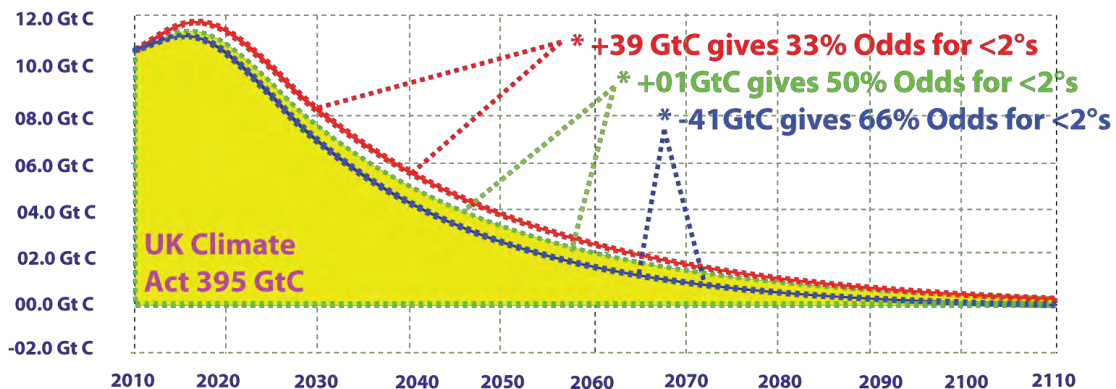
IPCC AR5 Odds for 2 degrees	Cumulative 1800 to Future?	Net of "Non-CO2-Forcings in RCP 2.6"	Speculative Balance	3 Values Emissions Since 1800 [AR5]	Final Residual Balance	UKCA [395 GtC] reduced by ...
				Source Not Clear		
33%	1,560 GtC	880 GtC	680 GtC	616 GtC	264 GtC	131.0 GtC
50%	1,210 GtC	840 GtC	370 GtC	616 GtC	224 GtC	171.0 GtC
66%	1,000 GtC	800 GtC	200 GtC	616 GtC	184 GtC	211.0 GtC

If 531 Gt C already emitted, IPCC AR5 shows UK Climate Act: -



IPCC AR5 Odds for 2 degrees	Cumulative 1800 - 2011	Plus "Non-CO2-Forcings in RCP 2.6"	Balance	Contentious Area Emitted Already ??	Final Residual Balance	UKCA 395 GtC reduce UKCA by
				RCP Value		
33%	1,560 GtC	880 GtC	680 GtC	531 GtC	349 GtC	46.0 GtC
50%	1,210 GtC	840 GtC	370 GtC	531 GtC	309 GtC	86.0 GtC
66%	1,000 GtC	800 GtC	200 GtC	531 GtC	269 GtC	126.0 GtC

If 446 Gt C already emitted, IPCC AR5 shows UK Climate Act: -



IPCC AR5 Odds for 2 degrees	Cumulative 1800 - 2011	Plus "Non-CO2-Forcings in RCP 2.6"	Balance	Contentious Area Emitted Already ??	Final Residual Balance	UKCA 395 GtC reduce UKCA by
				CDIAC Value		
33%	1,560 GtC	880 GtC	680 GtC	446 GtC	434 GtC	-39.0 GtC
50%	1,210 GtC	840 GtC	370 GtC	446 GtC	394 GtC	1.0 GtC
66%	1,000 GtC	800 GtC	200 GtC	446 GtC	354 GtC	41.0 GtC